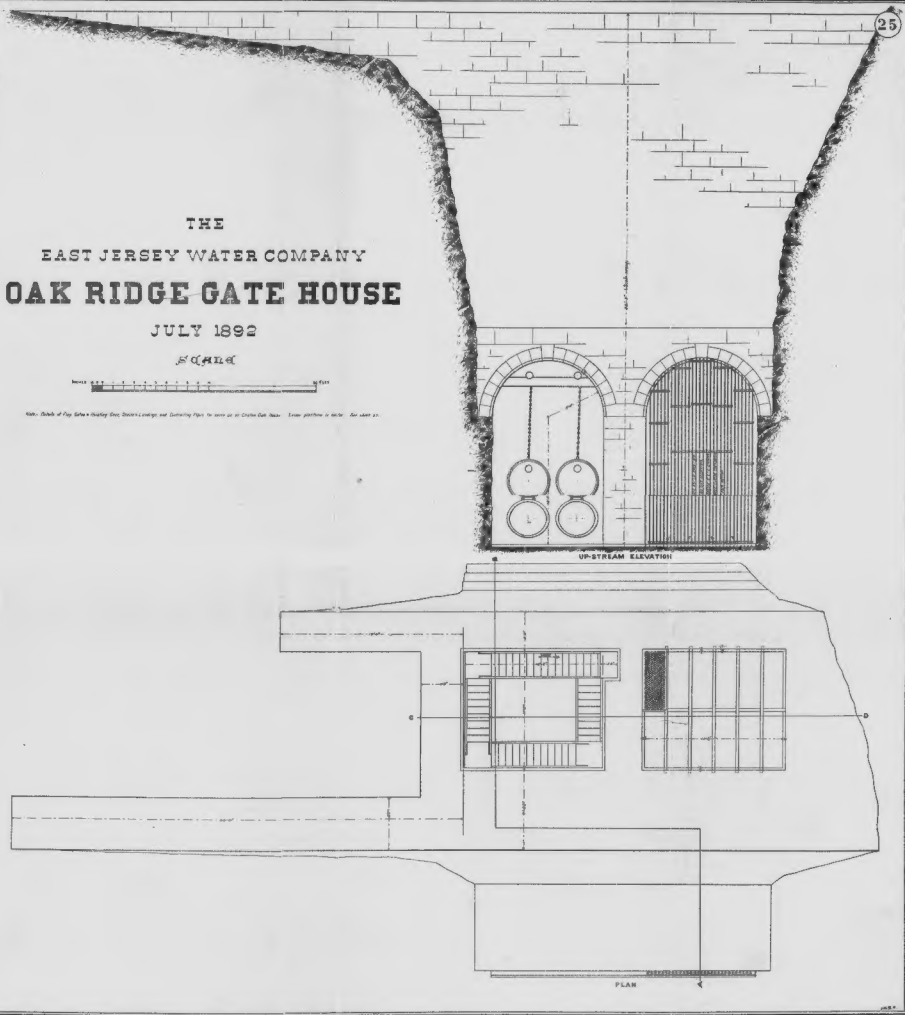
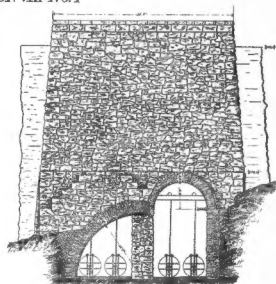


JULY 1892

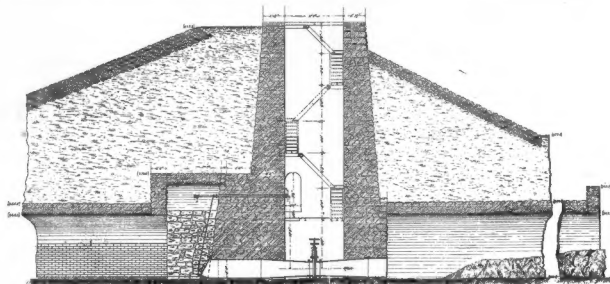
SCHEM

Note.—Details of Five Sides • Negative Four Sides • London and Distribution Plans are given in our Circular Gold Book. Terms, shipping & order. See above.

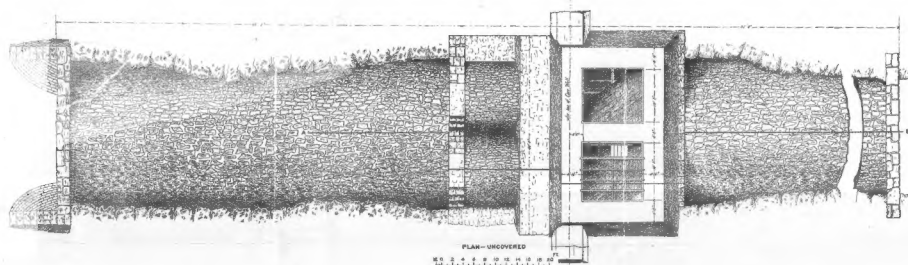




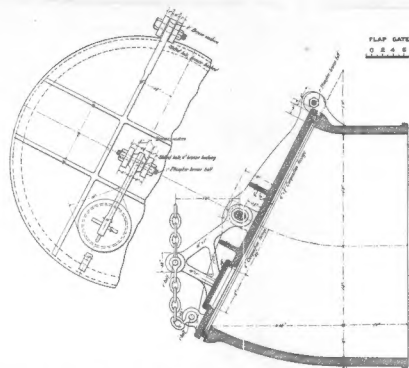
UP-STREAM ELEVATION—UNCOVERED



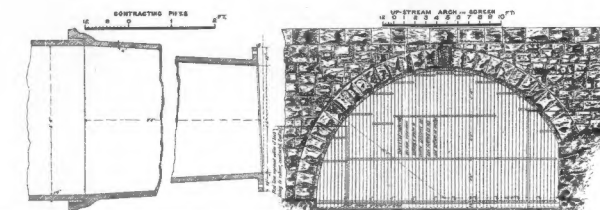
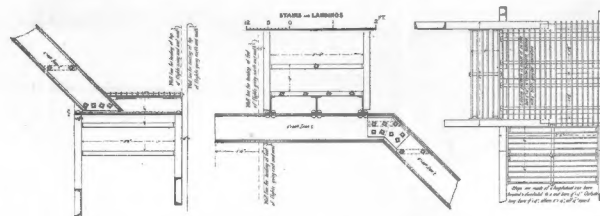
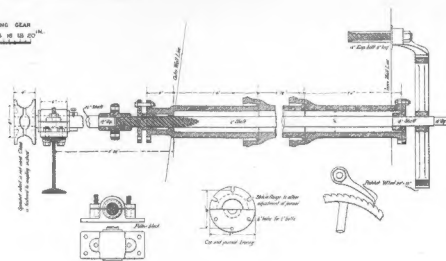
SECTION ON LINE AB



PLAN—UNCOVERED

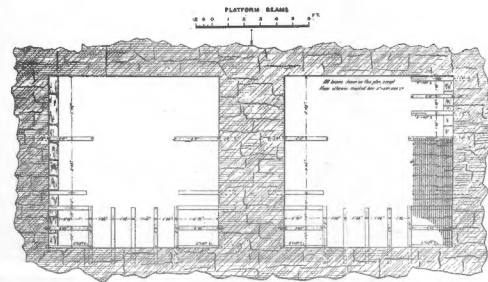


FLAP GATE — HOISTING GEAR

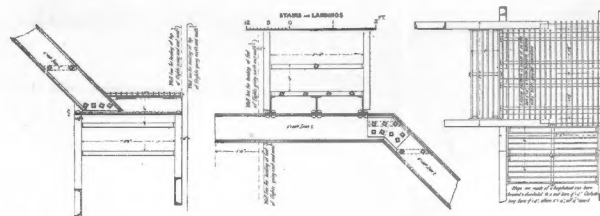


THE EAST JERSEY WATER COMPANY CLINTON GATE HOUSE

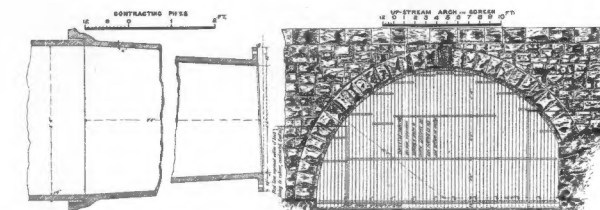
MARCH 1892



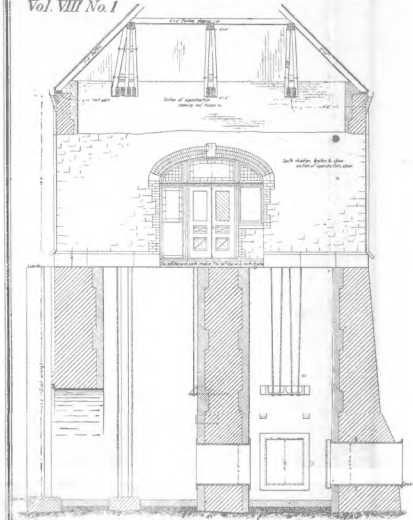
PLATFORM BEAMS



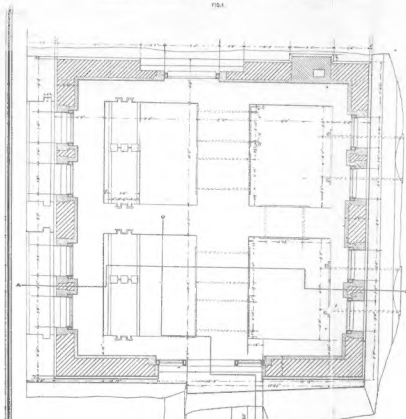
STAIRS — LANDINGS



UP-STREAM AND — DOWN-STREAM



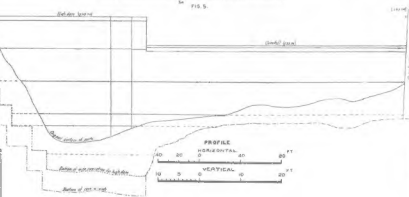
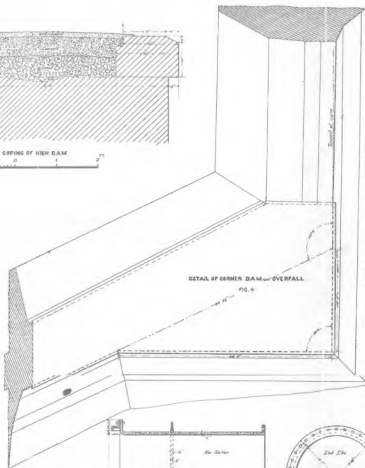
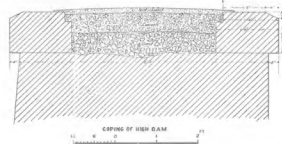
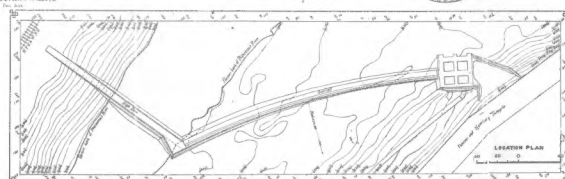
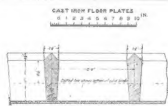
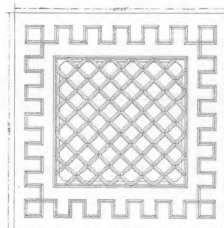
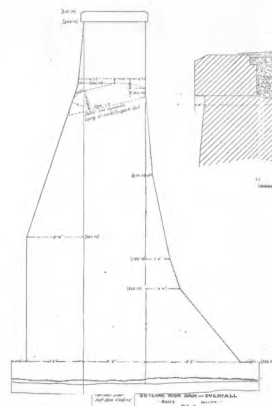
SECTION OF DISTRIBUTION ON LINE AB - BRIDGE ELEVATION OF SUPERSTRUCTURE
FIG. 1



PLAN OF

FIG. 2

BATH HOUSE

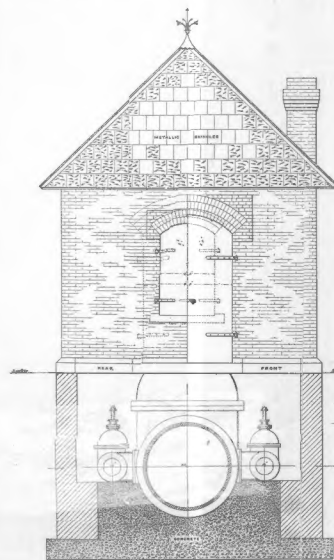


THE EAST JERSEY WATER COMPANY
MACOPIN INTAKE DETAILS

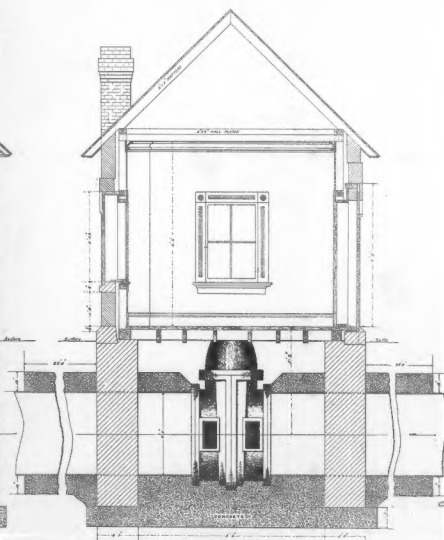
APRIL 1922

SCALE FOR CIVIL ENGINEERS

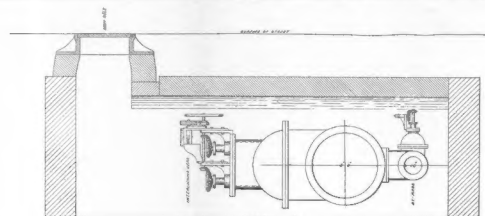
1" = 10'



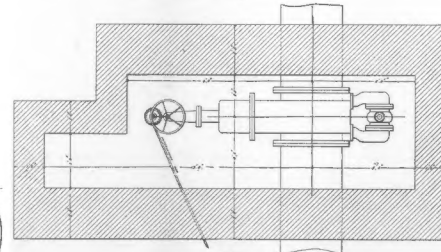
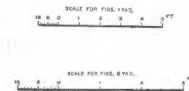
CROSS SECTION ELEVATION OF 48\"/>



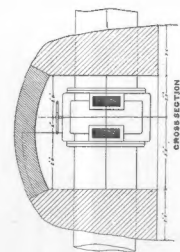
LONGITUDINAL SECTION
FIG. 3.



LONGITUDINAL SECTION OF 66\"/>



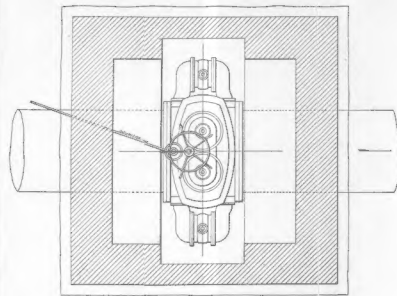
PLAN
FIG. 9.



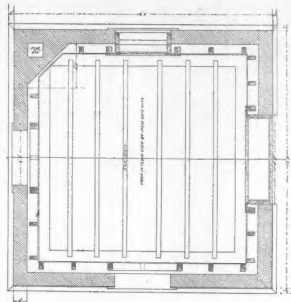
CROSS SECTION
FIG. 12.



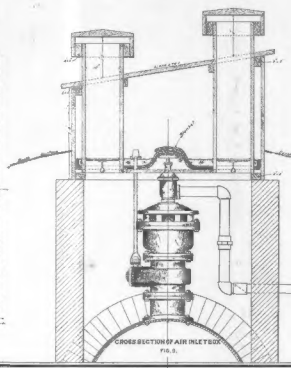
SECTION OF TRAP DOOR
FIG. 8.



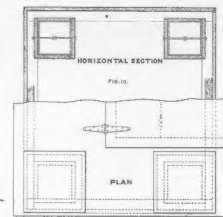
PLAN OF FOUNDATION
FIG. 7.



SECTIONAL PLAN
FIG. 4.

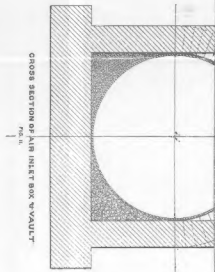


CROSS SECTION OF AIR INLET
FIG. 5.



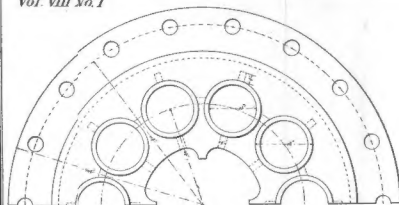
HORIZONTAL SECTION
FIG. 10.

PLAN

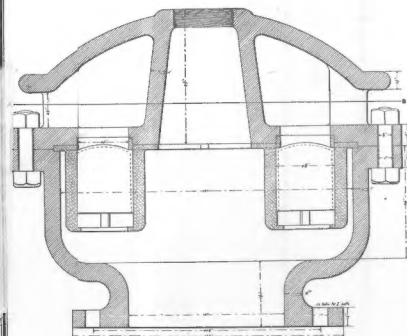


CROSS SECTION OF AIR INLET FOR 66\"/>

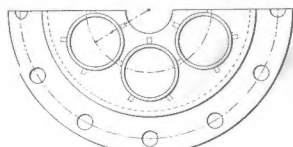
THE
EAST JERSEY WATER COMPANY.
CONDUIT STRUCTURES
JUNE 1892



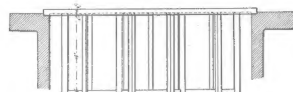
PLAN OF CASE AND CASE VALVE



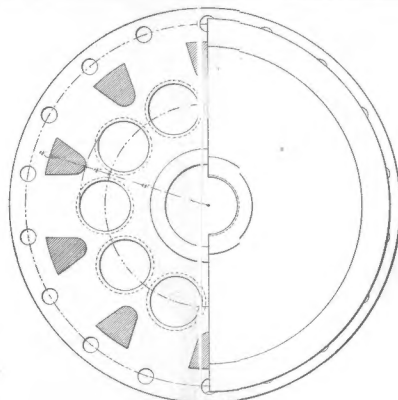
12" CLUSTER VALVE



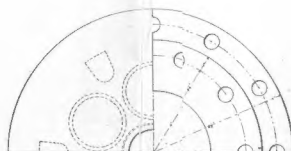
CASE AND CASE VALVE



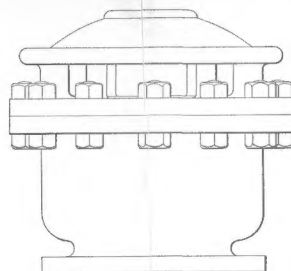
ELEVATION OF CASE VALVE



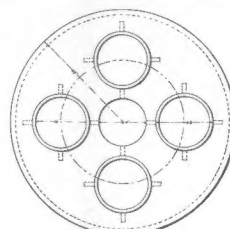
10" VALVE
SECTION AT AB PLAN OF CAP



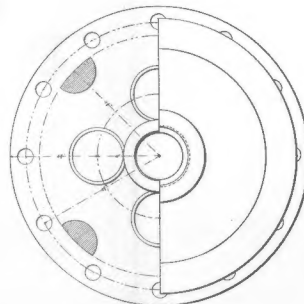
INVERTED PLAN 6" VALVE



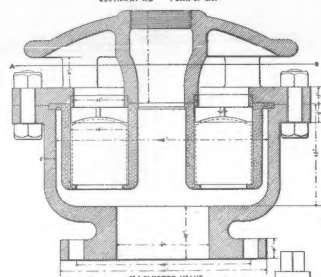
ELEVATION 6" CLUSTER VALVE



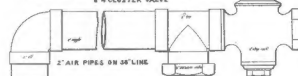
CASE OF 6" VALVE



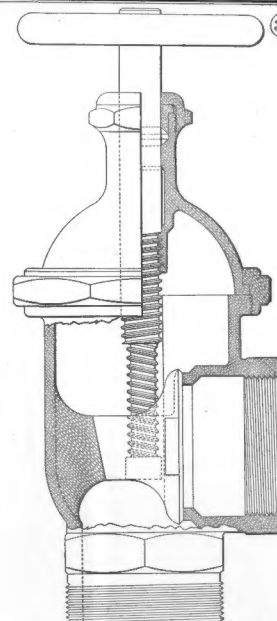
6" VALVE
SECTION AT AB PLAN OF CAP



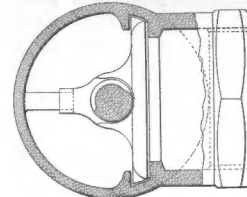
6" CLUSTER VALVE



2" AIR PIPES IN DE LINE

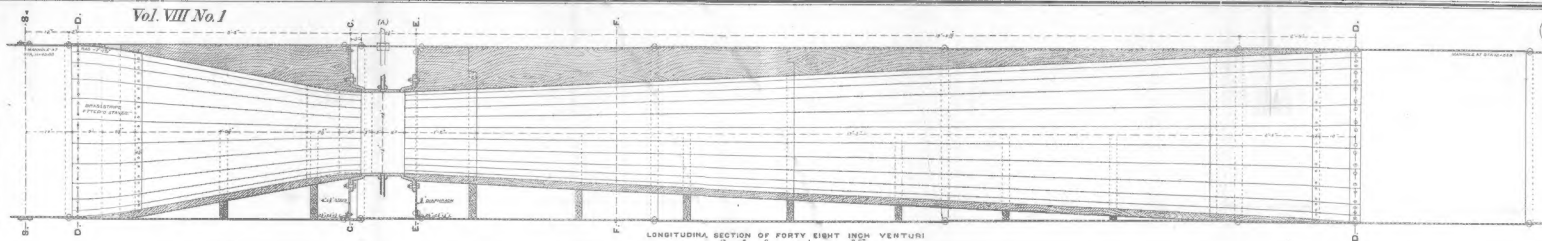


THREE INCH HAND, SMALL 6" CLUSTER VALVE 1 1/2 IN. DIA.

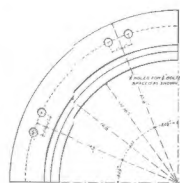


THE
EAST JERSEY WATER COMPANY
CONDUIT APPURTENANCES
DETAILS OF AIR VALVES

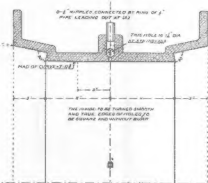
JUNE 1892



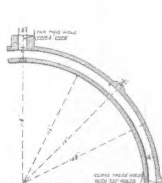
LONGITUDINAL SECTION OF FORTY EIGHT INCH VENTURI



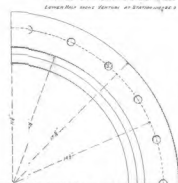
QUARTER UP-STREAM ELEVATION



HALF LONGITUDINAL SECTION



CROSS SECTION ON S.S.



QUARTER DOWN-STREAM ELEVATION

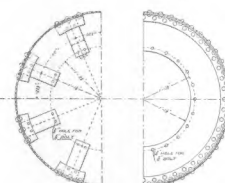


FULL SIZE ORIFICE PLATE AT S.

Scale as half in lower flow



D.D.

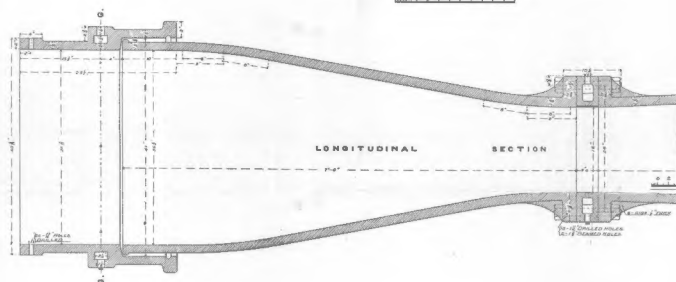


E.E.



F.F.

HALF SECTIONS



LONGITUDINAL SECTION

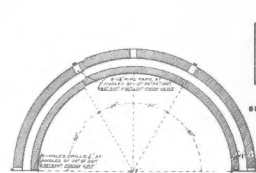
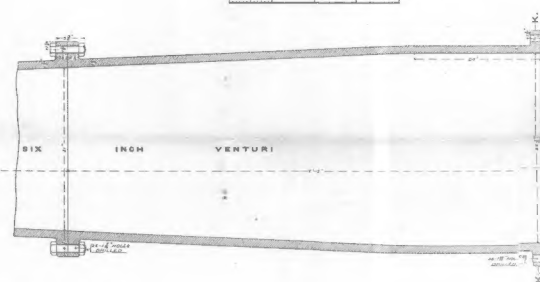
OF

THIRTY

SIX

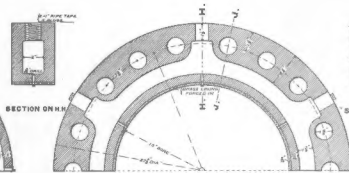
INCH

VENTURI

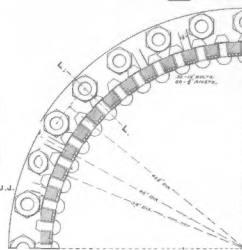


HALF SECTION ON S.S.

Scale as half in lower flow

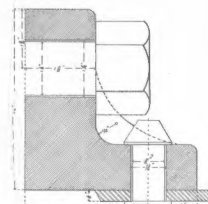


HALF SECTION OF THROAT OF THIRTY SIX INCH METER



QUARTER SECTION ON K.K.

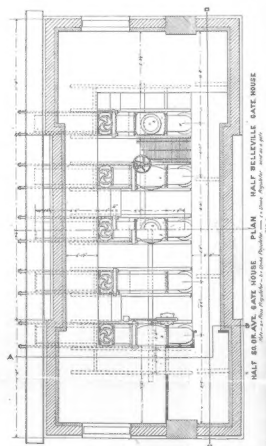
Scale as half in lower flow



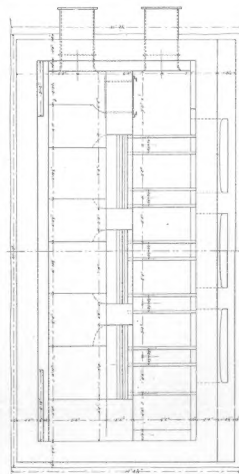
SECTION ON L.L.

THE
EAST JERSEY WATER COMPANY'S
VENTURI WATER METER

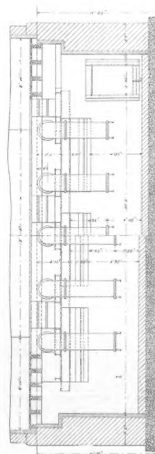
OCT. 1882



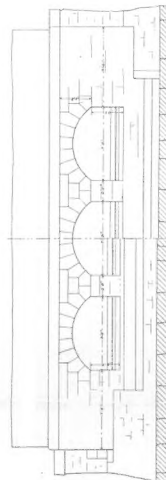
PLAN HALF BELLEVILLE GATE HOUSE



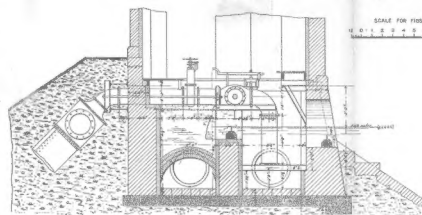
PLAN WITH FLOOR AND PILES REMOVED



SECTION ON LINE C-D

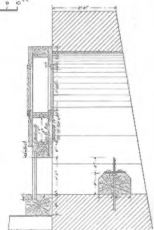


ELEVATION OF RESERVOIR FRONT

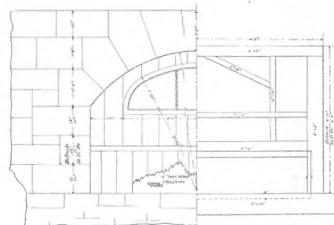


SECTION ON LINE B-B - BR. DRIVE GATE HOUSE

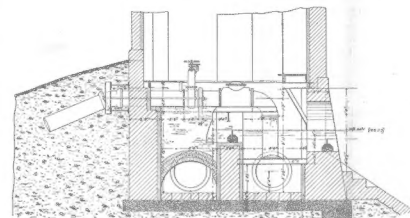
SCALE FOR THIS FIG. 1/4" = 1' 0"



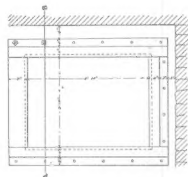
SECTION OF ARCH & AIR CURTAIN



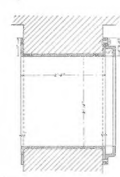
ELEVATION OF ARCH & AIR CURTAIN - WEIR REMOVED



SECTION ON LINE A-B - BELLEVILLE GATE HOUSE



SPECIAL SECTION ON LINE A-B

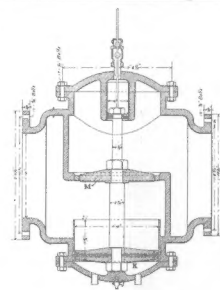


SECTION ON LINE A-B

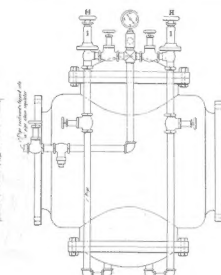


SPECIAL GATEHOUSE

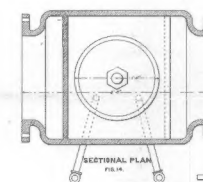
SCALE FOR THIS FIG. 1/4" = 1' 0"



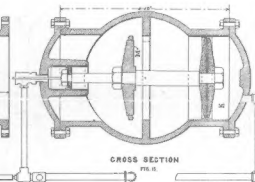
LONGITUDINAL SECTION



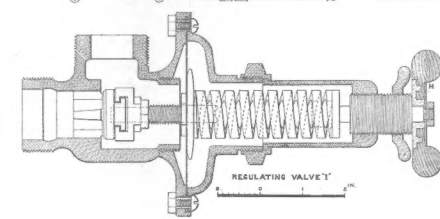
ELEVATION



SECTIONAL PLAN



CROSS SECTION



REGULATING VALVE

ROSS VALVE CO. PRESSURE REGULATOR

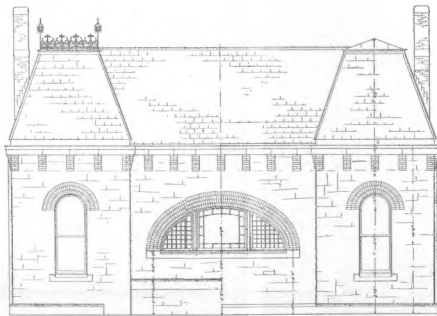
SCALE FOR THIS FIG. 1/4" = 1' 0"

THE
EAST JERSEY WATER COMPANY
SUBSTRUCTURE OF GATE HOUSES

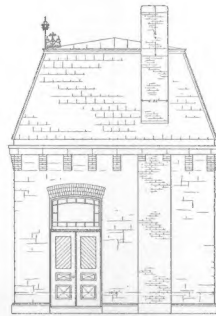
AT
NEWARK RESERVOIRS

NOVEMBER 1892

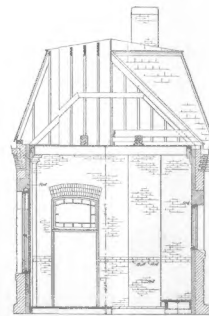
THE
EAST JERSEY WATER COMPANY
SUPERSTRUCTURE OF GATE HOUSES
AT
NEWARK RESERVOIRS
OCTOBER 1892



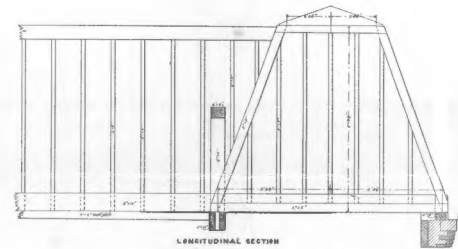
HALF STREET FACE-ELEVATION-HALF RESERVOIR FACE



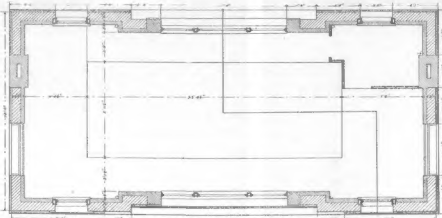
SIDE ELEVATION



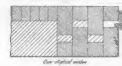
SECTION ON A-B



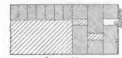
LONGITUDINAL SECTION



PLAN



See opposite page

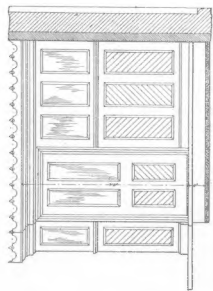


See opposite page

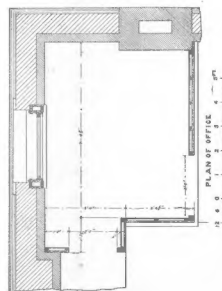


See next two pages

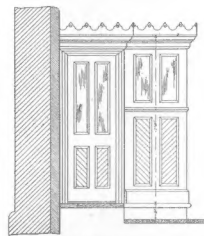
SECTIONS OF ARCHES



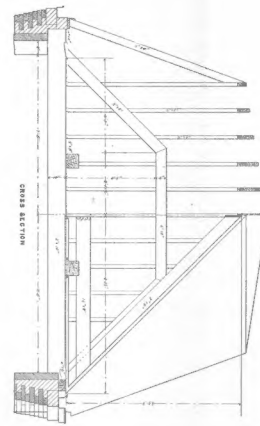
FRONT ELEVATION



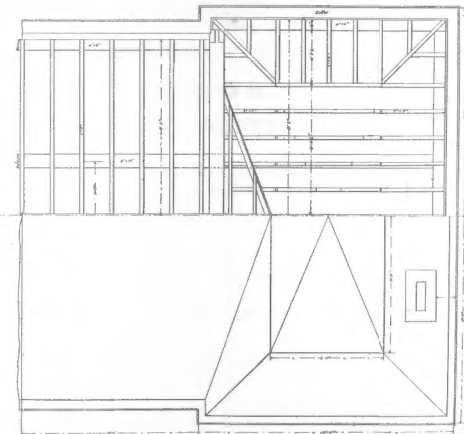
PLAN OF OFFICE



SIDE ELEVATION



WELLS END



PLAN OF ROOFING

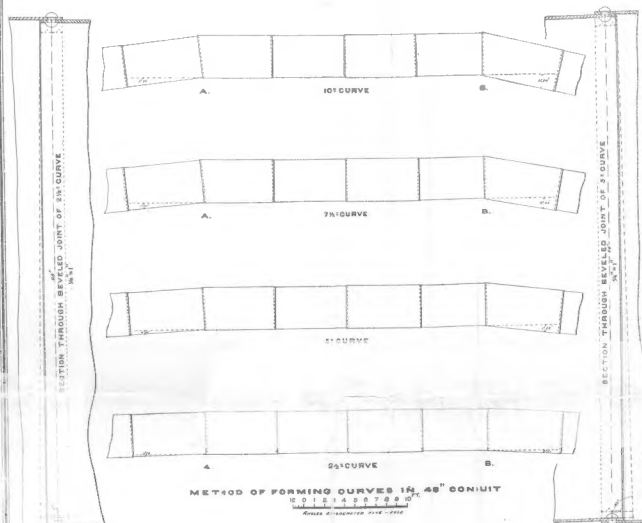


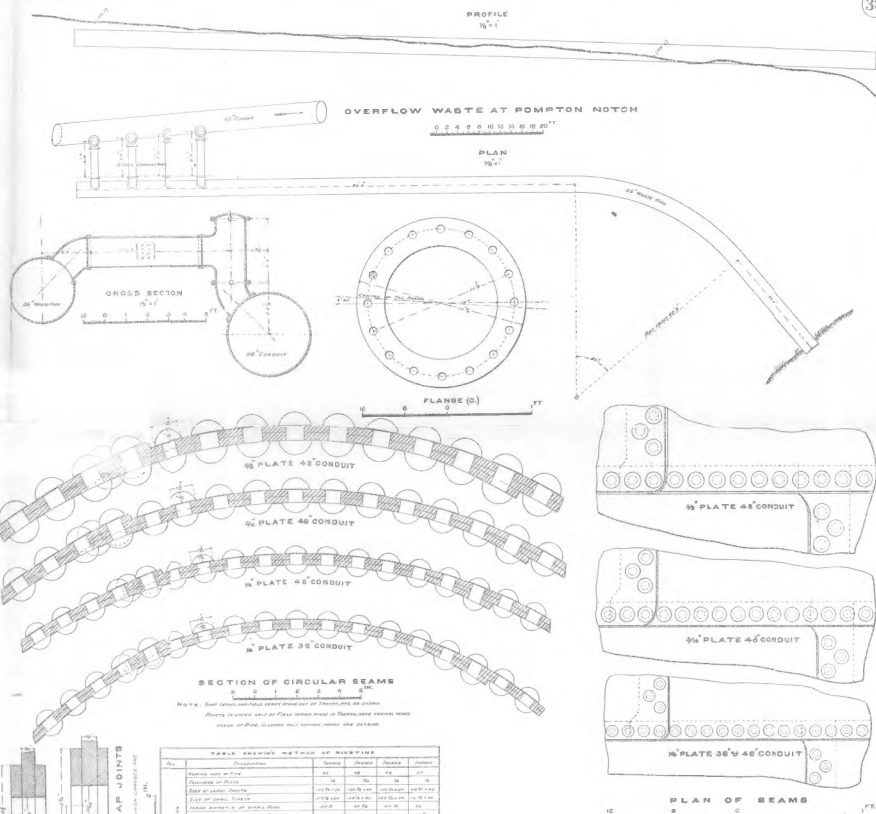
TABLE SHOWING METHOD OF FORMING CURVES IN 48 INCH CONDUIT

Curves	Radius	Length	Radius	Length	Radius	Length	Radius	Length
10°	270.0	10.00	270.0	10.00	270.0	10.00	270.0	10.00
7 1/2°	360.0	13.33	360.0	13.33	360.0	13.33	360.0	13.33
5°	450.0	16.67	450.0	16.67	450.0	16.67	450.0	16.67
2 1/2°	900.0	33.33	900.0	33.33	900.0	33.33	900.0	33.33

REMARKS: CURVES ARE MADE IN THE FIELD BY SETTING OUT THE ANGLES

TABLE SHOWING METHOD OF FORMING CURVES AND JOINTS FOR 48 INCH CONDUIT

Curves	Radius	Length	Radius	Length	Radius	Length	Radius	Length
10°	270.0	10.00	270.0	10.00	270.0	10.00	270.0	10.00
7 1/2°	360.0	13.33	360.0	13.33	360.0	13.33	360.0	13.33
5°	450.0	16.67	450.0	16.67	450.0	16.67	450.0	16.67
2 1/2°	900.0	33.33	900.0	33.33	900.0	33.33	900.0	33.33



SECTION OF CIRCULAR SEAMS

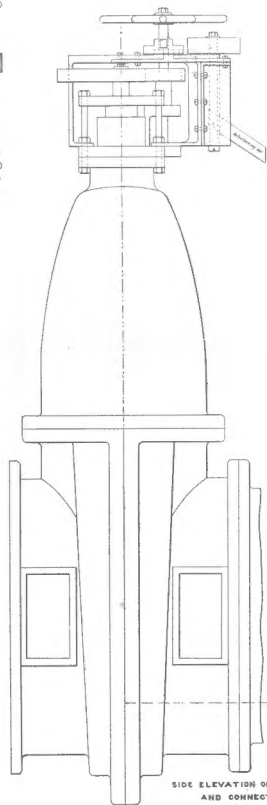
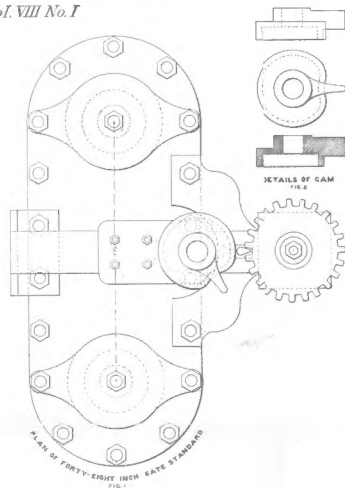
NOTE: Each joint should be made as shown in the plan view. (Note in lower left of plan view may be modified and covered with sheet of lead, or other suitable material.)

TABLE SHOWING METHOD OF FORMING CURVES AND JOINTS FOR 48 INCH CONDUIT

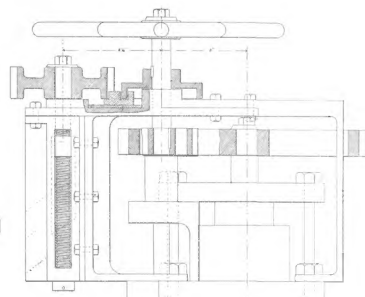
Curves	Radius	Length	Radius	Length	Radius	Length	Radius	Length
10°	270.0	10.00	270.0	10.00	270.0	10.00	270.0	10.00
7 1/2°	360.0	13.33	360.0	13.33	360.0	13.33	360.0	13.33
5°	450.0	16.67	450.0	16.67	450.0	16.67	450.0	16.67
2 1/2°	900.0	33.33	900.0	33.33	900.0	33.33	900.0	33.33

THE EAST JERSEY WATER COMPANY CONDUIT DETAILS

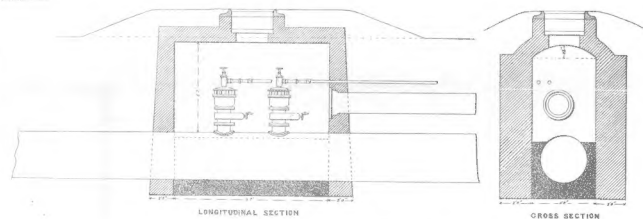
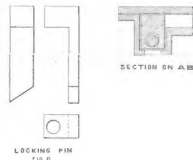
NOVEMBER 1892



DETAILS OF INTERLOCKING BLOW-OFF APPARATUS

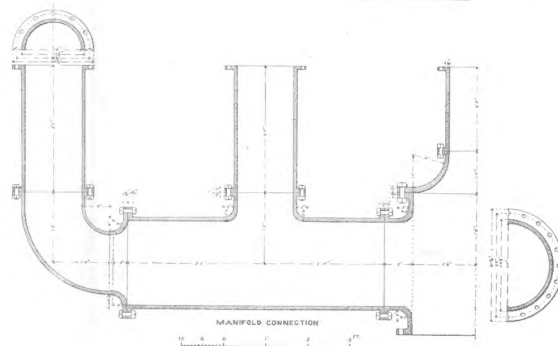


SIDE ELEVATION AT FORTY- EIGHT INCH GATE STANDARD
FIG. 5



AIR VALVE VAULT
FIG. 8

Note: Details show air at outlet of valve, valve in fully open and closed - Other are similar



DISTANCE OF SLUICE GATE
AT
MAJOR INTAKE GATE HOUSE
FOR
A HEAD OF NINE FEET

THE
EAST JERSEY WATER COMPANY
DISCHARGE DIAGRAMS
DECEMBER 1887

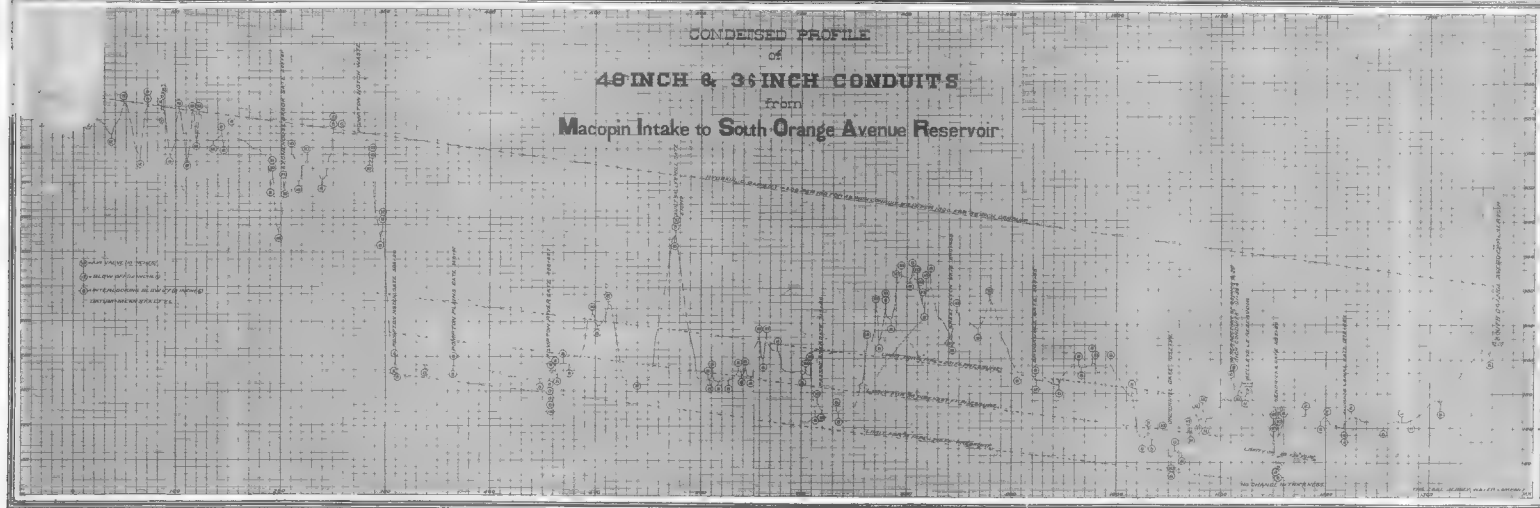
DISTANCE OF STOP VALVES
AT
DIST. AND MAJOR GATE HOUSES
FOR
A HEAD OF NINE FEET

RESULTS OF EXPERIMENTS
UPON
VENTURI WATER METERS

The East Jersey Water Company
MAP
of
WATERSHED & PIPE LINE
December 1922



CONDENSED PROFILE
of
48 INCH & 36 INCH CONDUITS
from
Macopin Intake to South Orange Avenue Reservoir

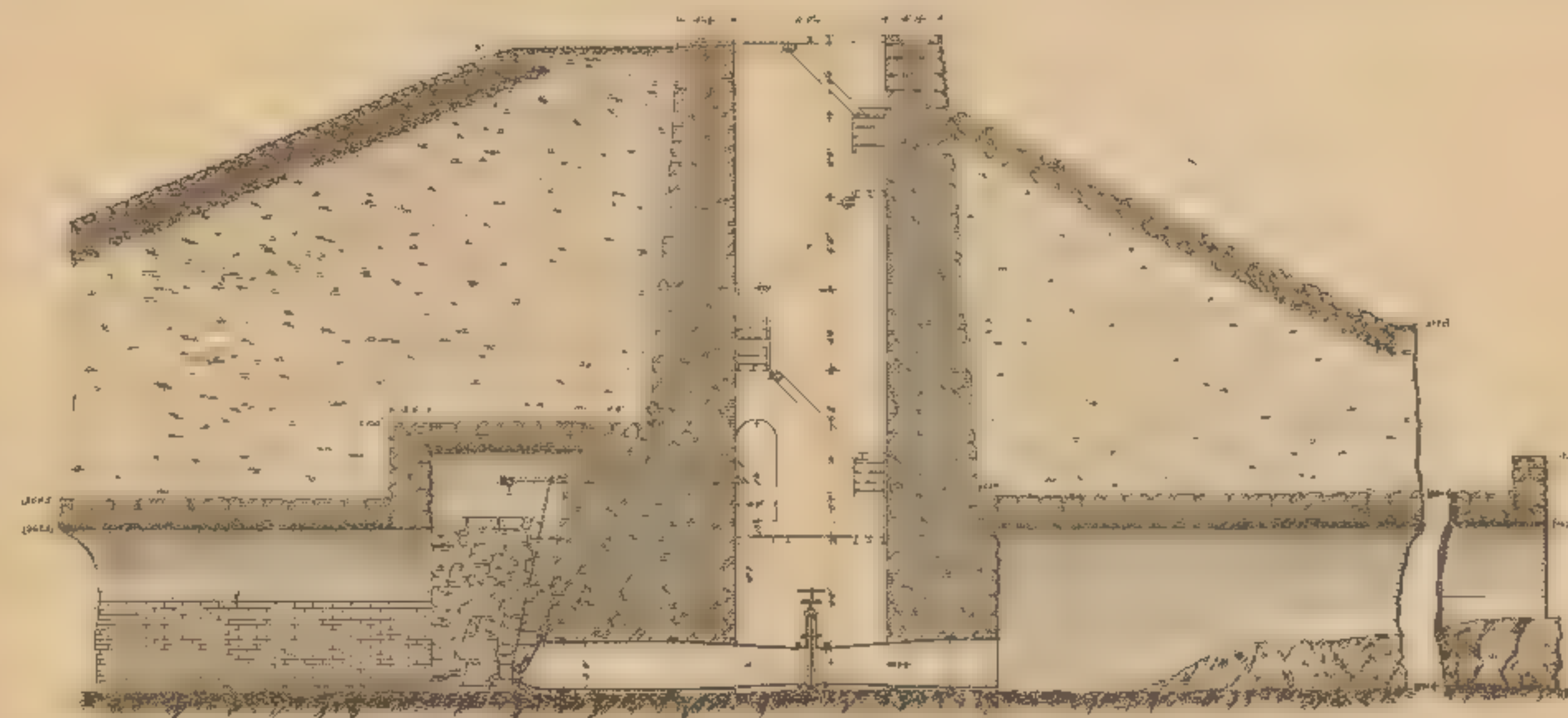


THE EAST JERSEY WATER COMPANY CLINTON GATE HOUSE

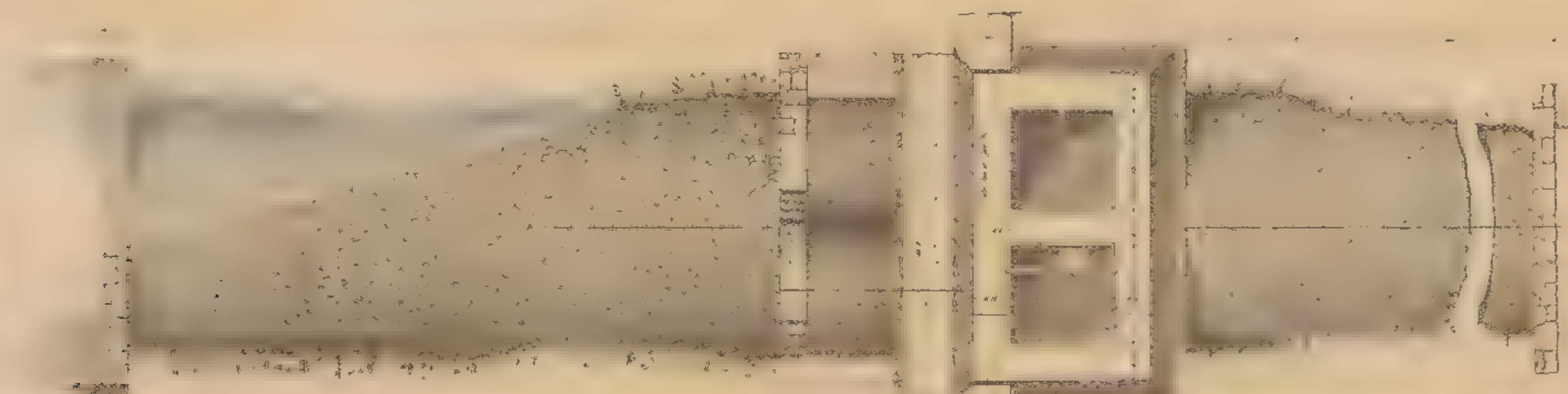
MARCH 1892



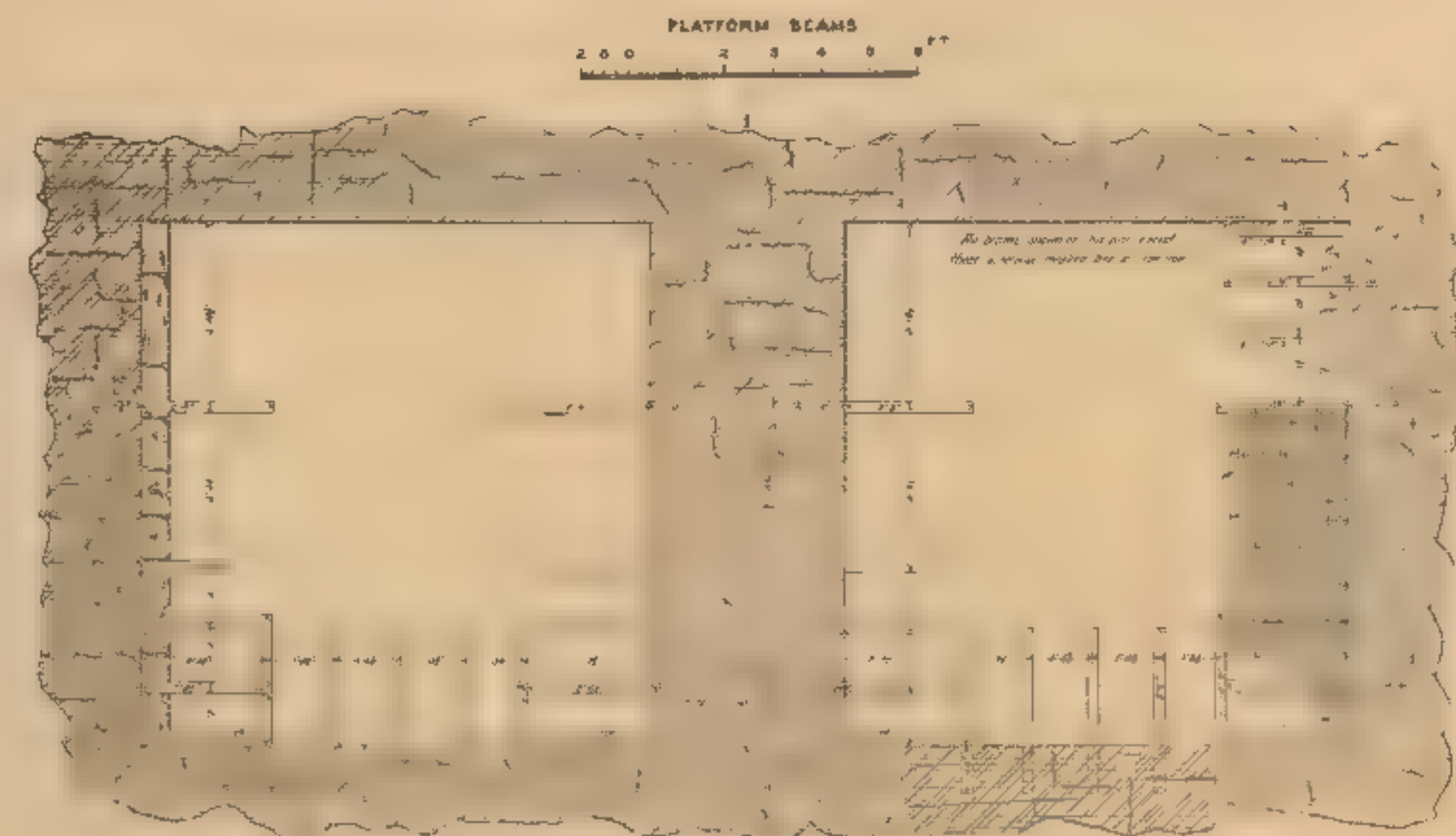
UP-STREAM ELEVATION UNCOVERED



SECTION ON LINE AB



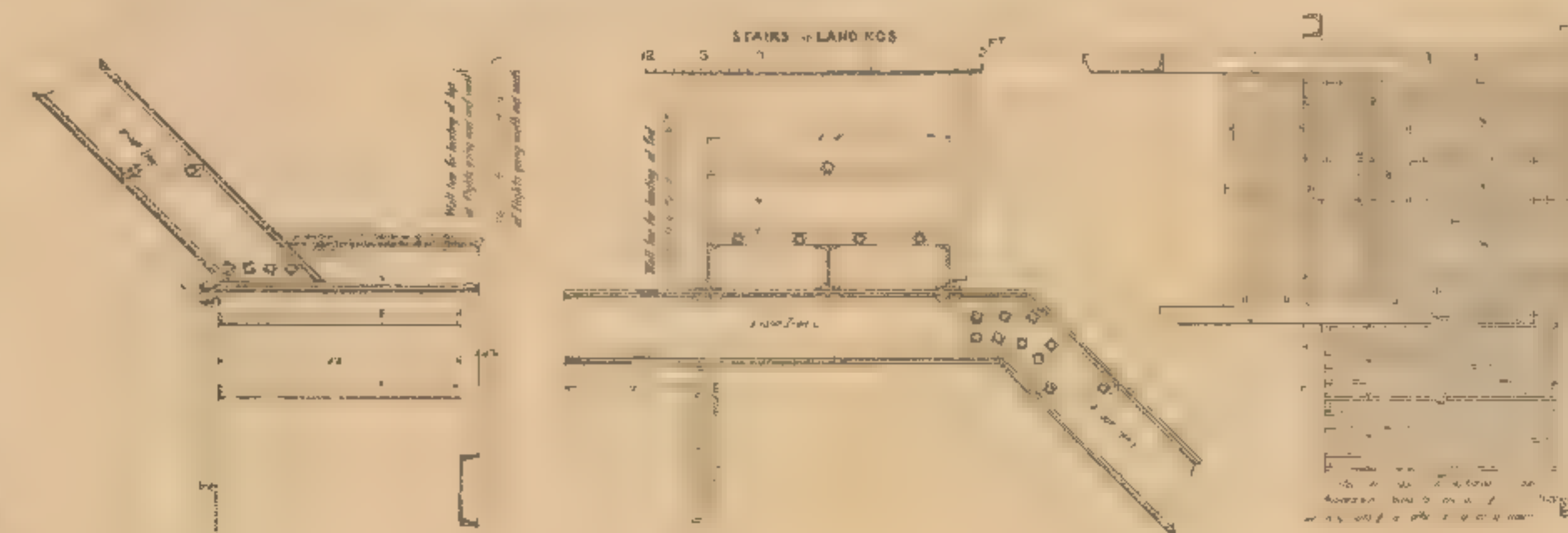
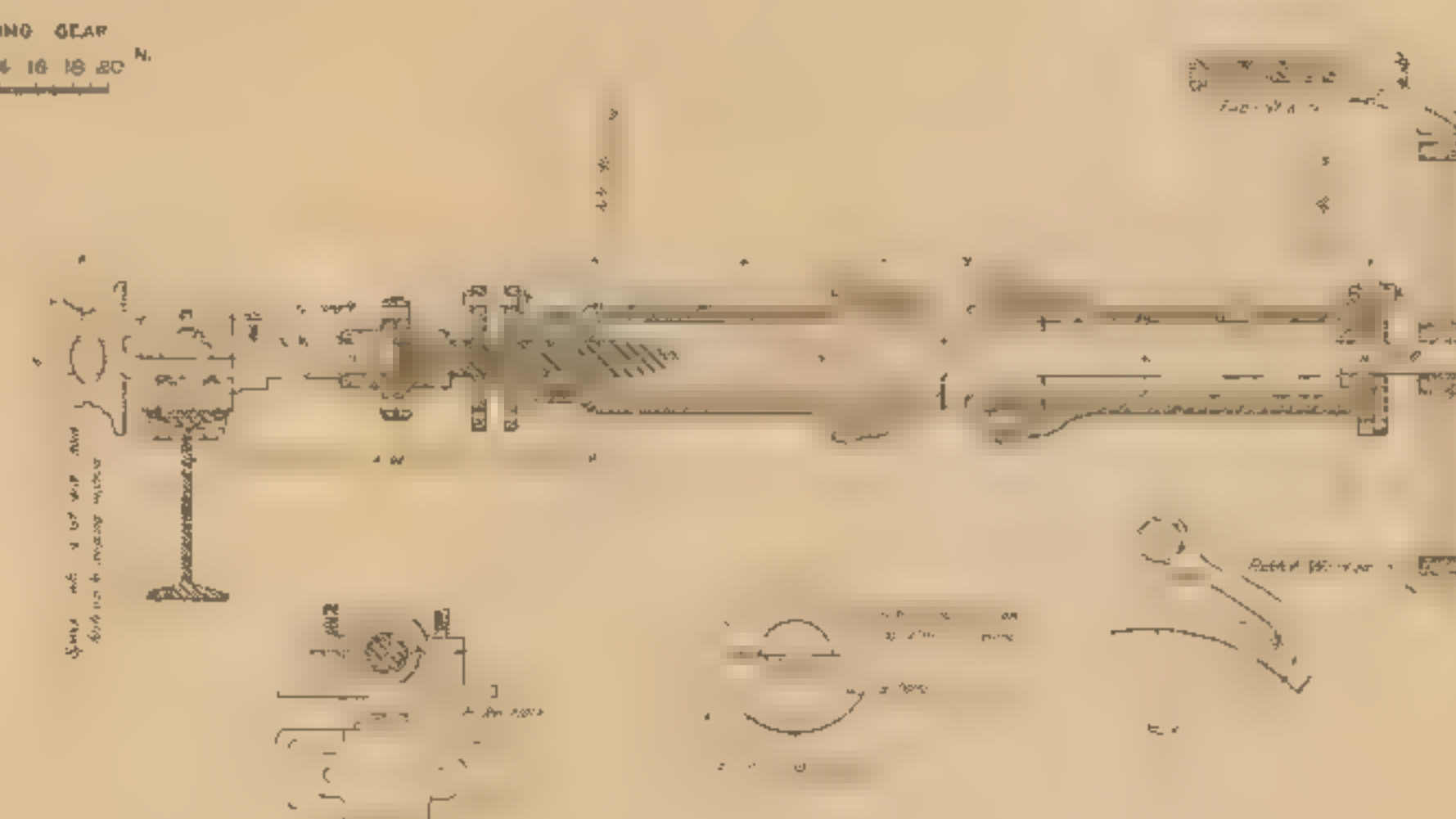
PLAN UNCOVERED



PLATFORM BEAMS



FLAP GATES AND HOISTING GEAR



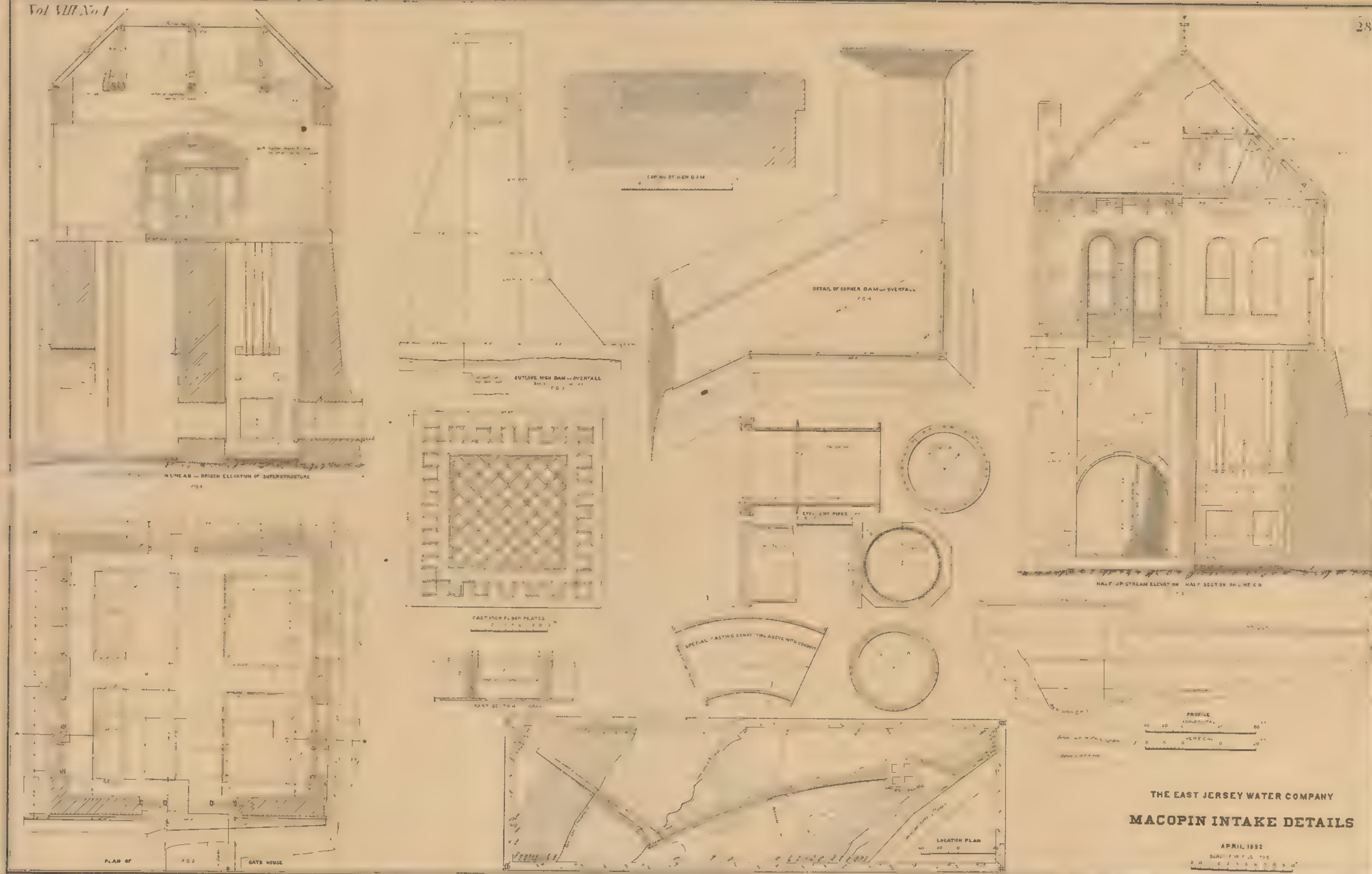
STAIRS - LANDINGS



CONTRACTING PIERS



UP-STREAM ARCH - SCREEN



THE EAST JERSEY WATER COMPANY
MACOPIN INTAKE DETAILS

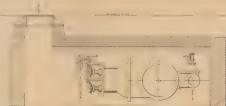
APRIL, 1892
SCALE FOR F.S. TO S.



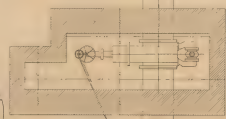
ELEVATED SECTION IN PLAN VIEW OF AIR SHAFT VALVE



LONGITUDINAL SECTION



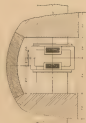
LONGITUDINAL SECTION OF AIR SHAFT VALVE



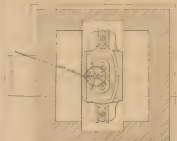
PLAN



SECTION OF AIR SHAFT VALVE



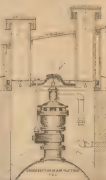
CROSS SECTION



PLAN OF FOUNDATION



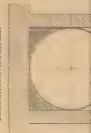
ELEVATED SECTION IN PLAN VIEW



SECTION OF AIR SHAFT VALVE

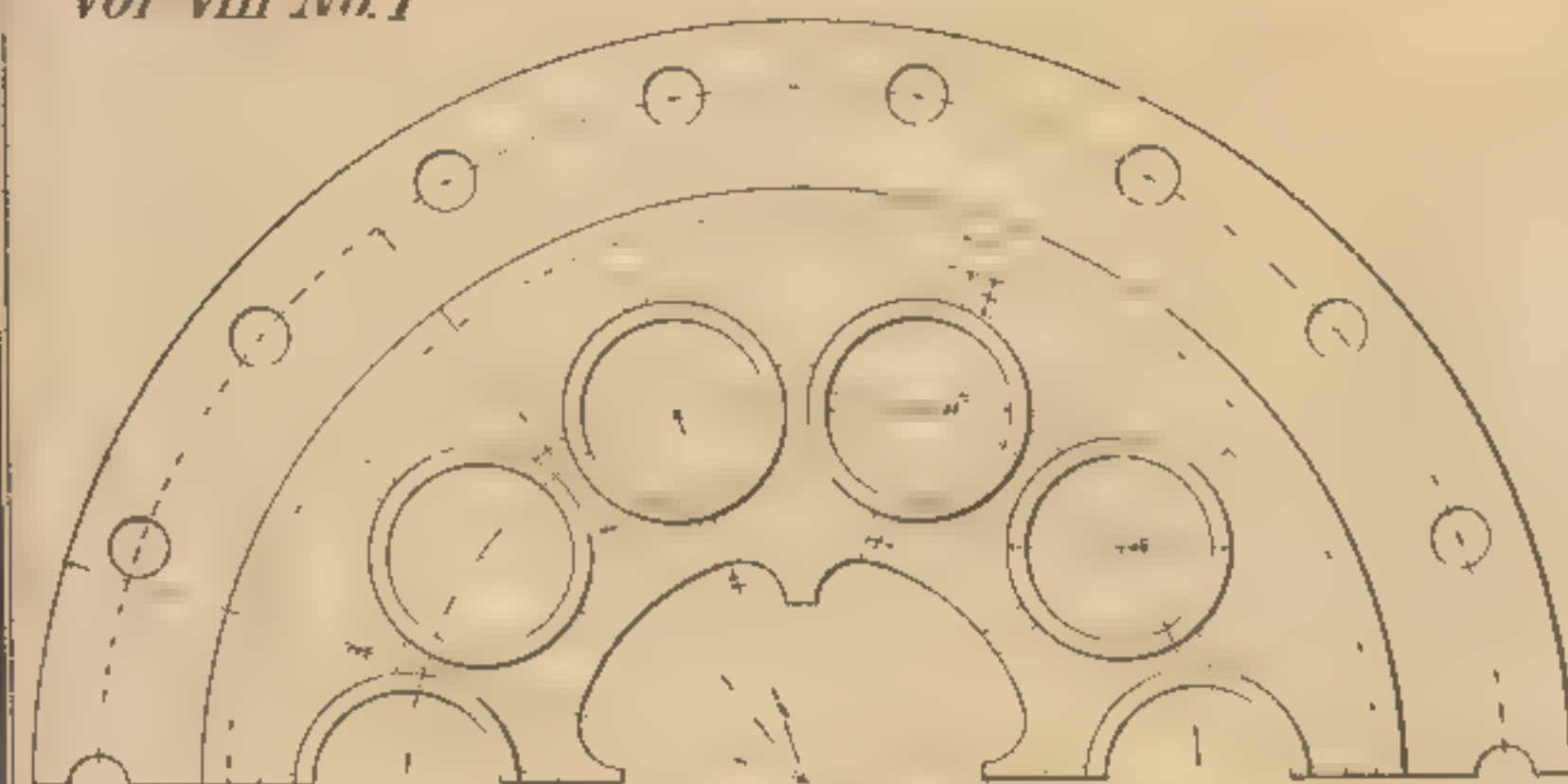


PLAN

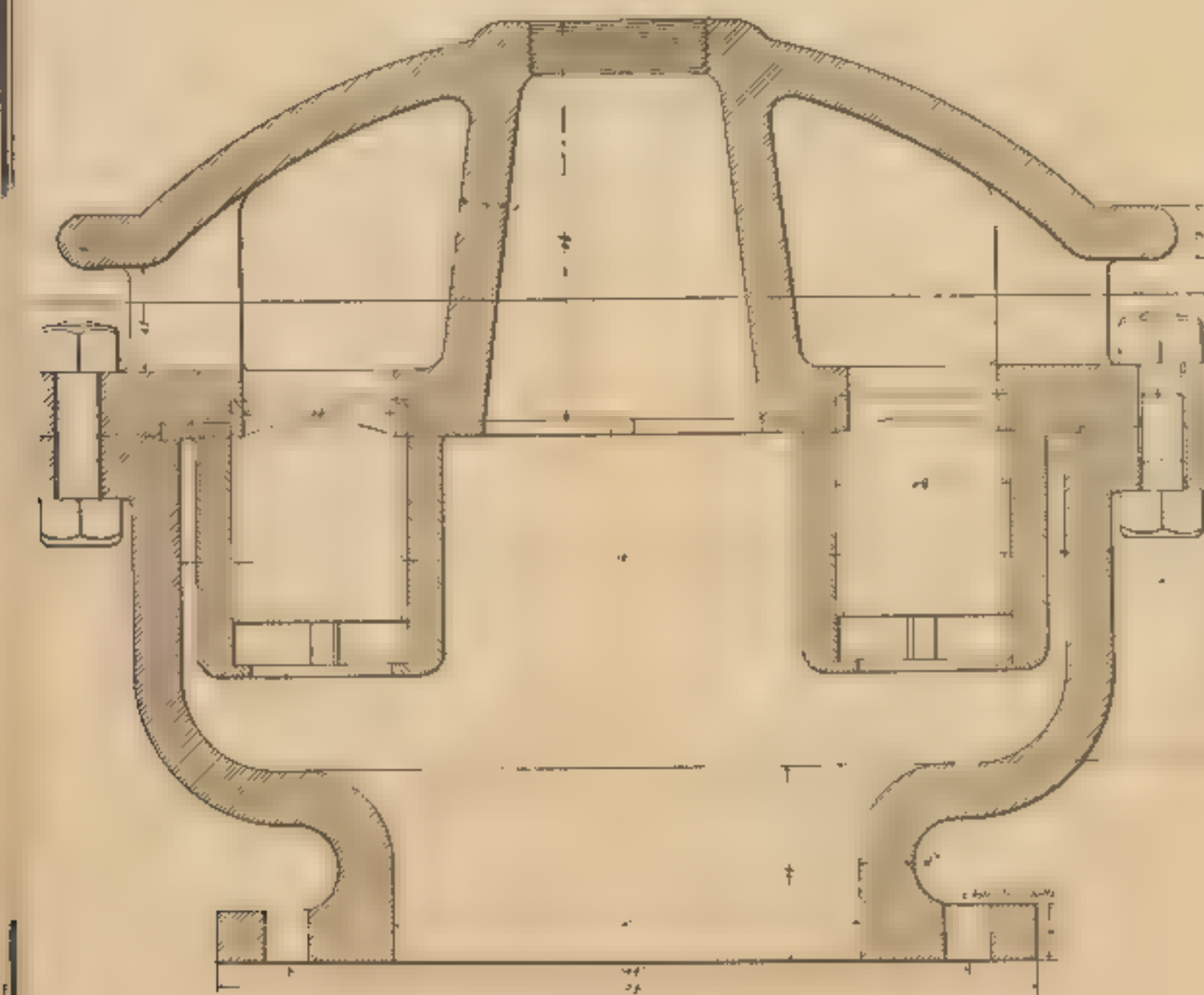


ELEVATED SECTION IN PLAN VIEW

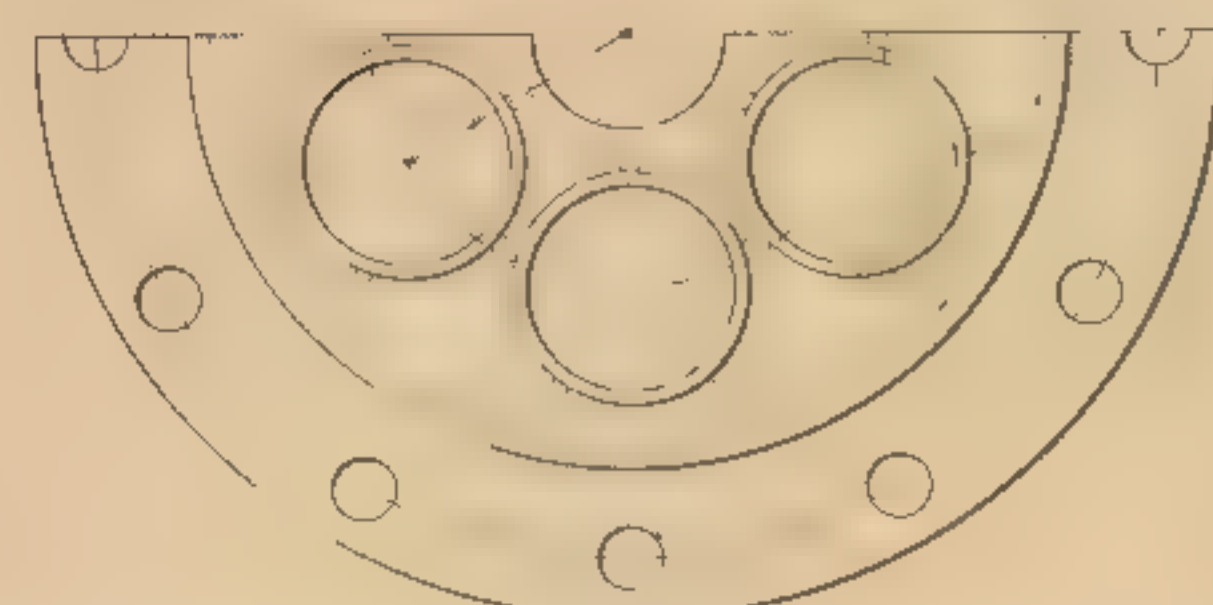
THE
EAST JERSEY WATER COMPANY.
CONDUIT STRUCTURES
JUNE 1892



PLAN OF CAGE AND CASE 10 VALVE



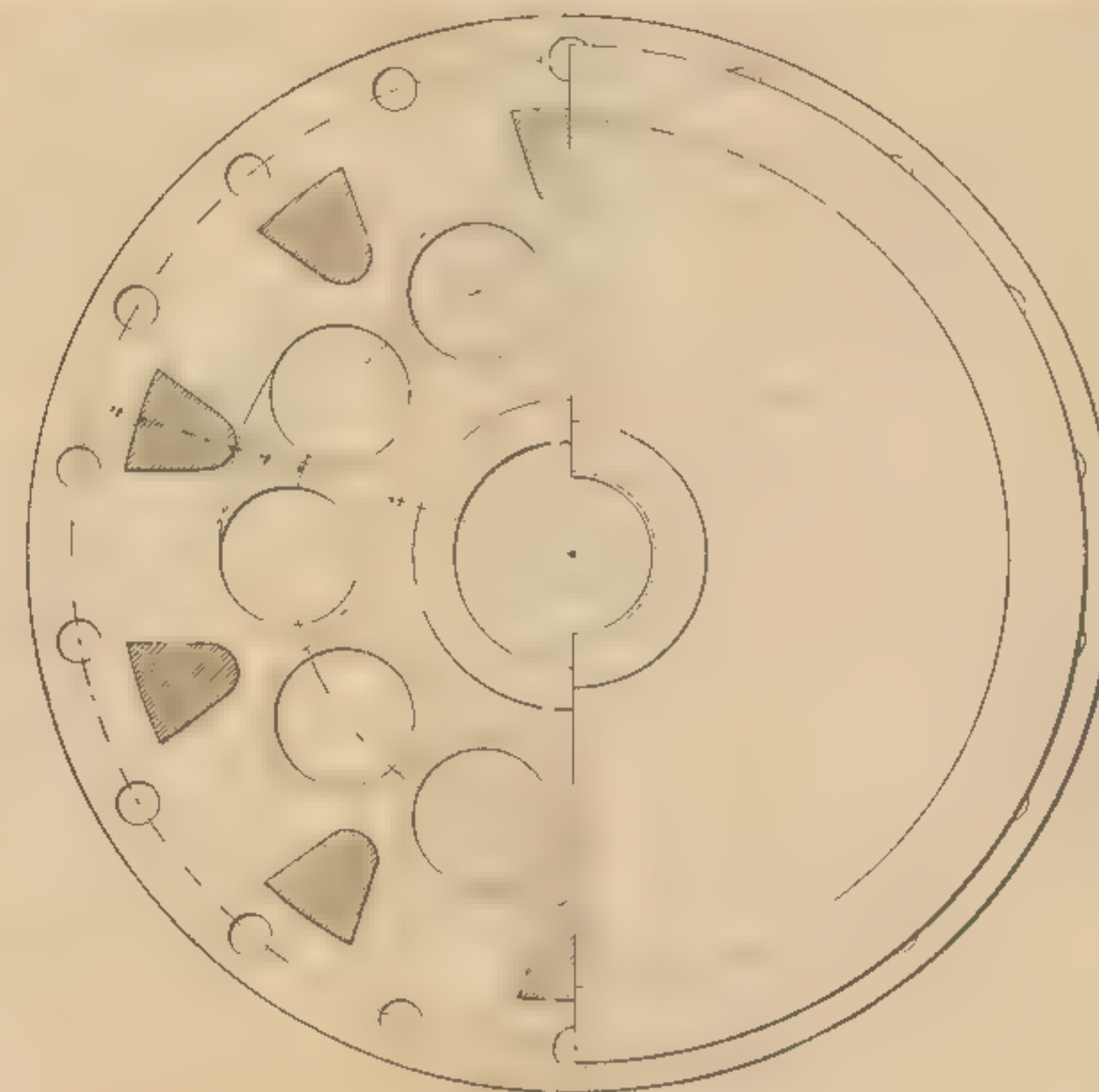
10 10 CLUSTER VALVE



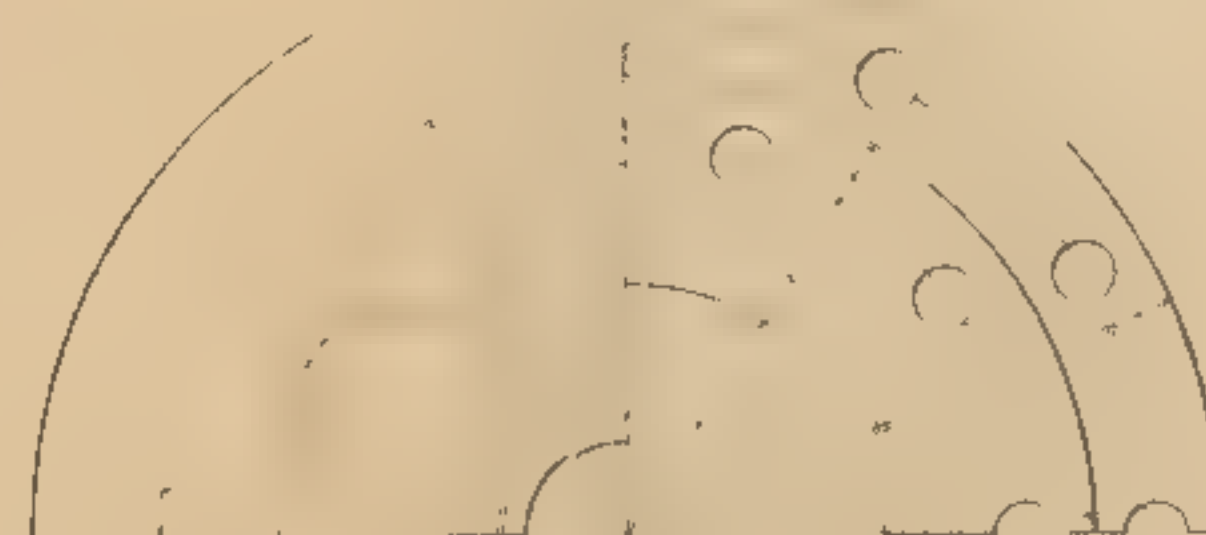
CAGE AND CASE 8 VALVE



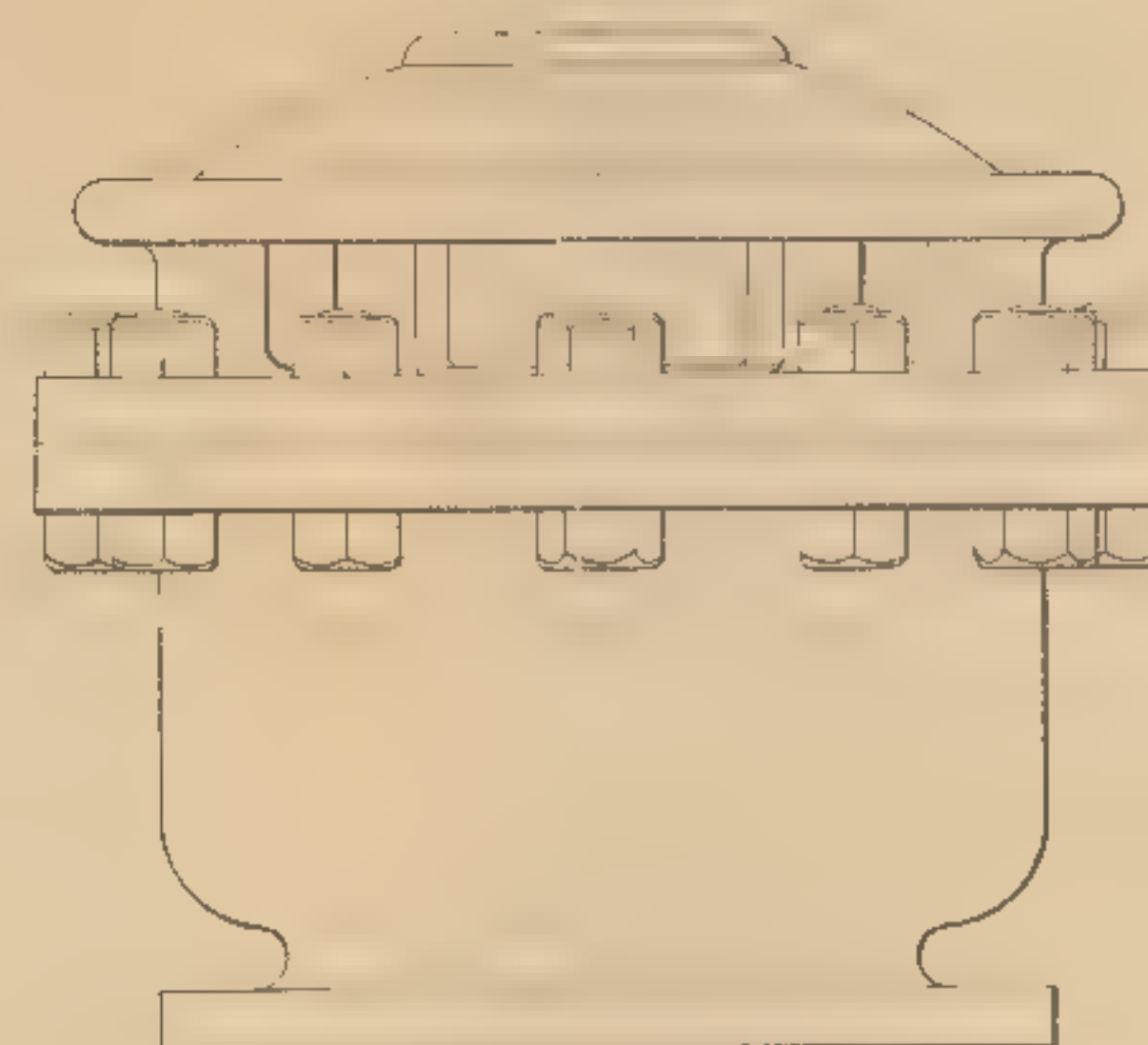
ELEVATION OF CAGE 8 VALVE



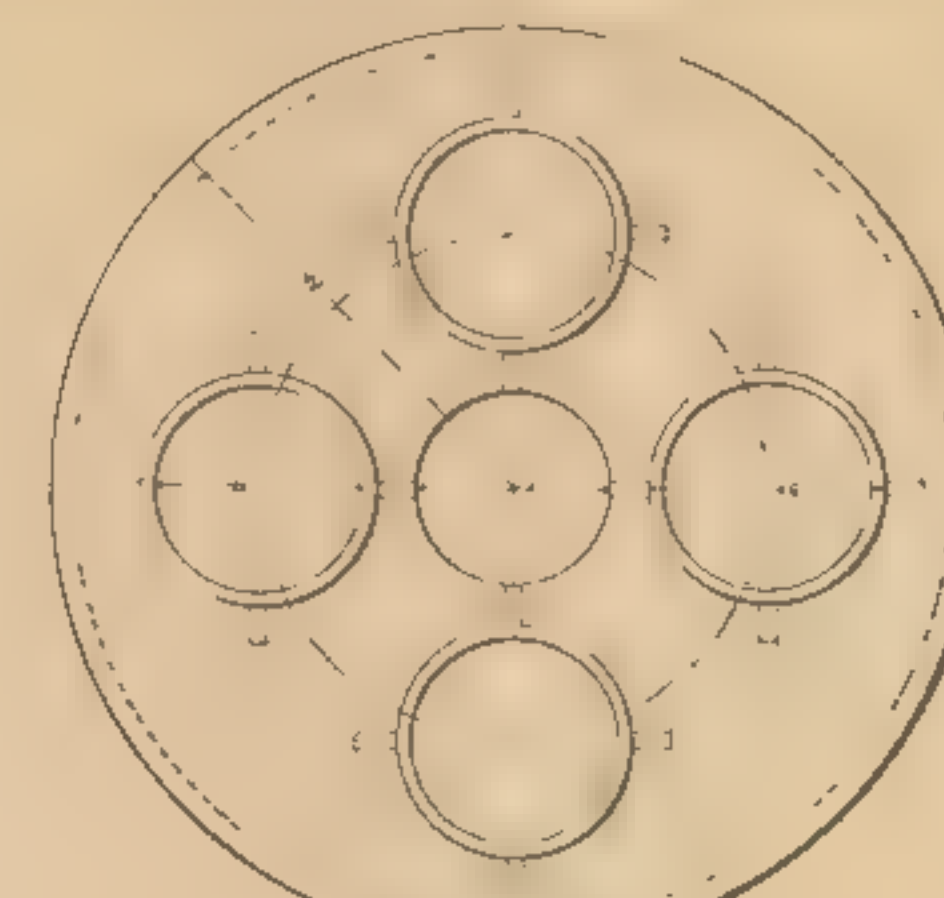
10 VALVE
SECTION ON AIR PLAN OF CAP



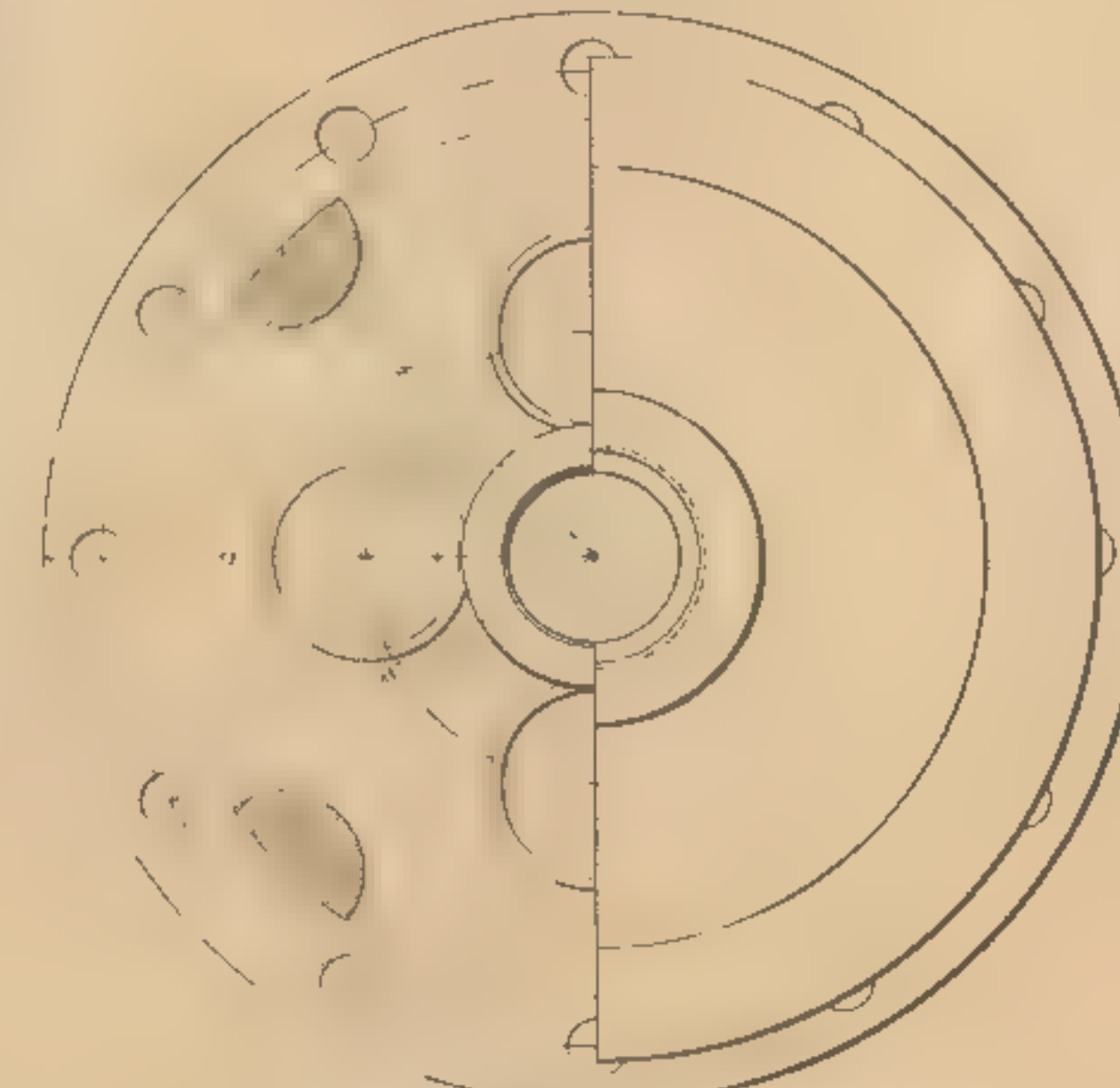
INVERTED PLAN 8 VALVE



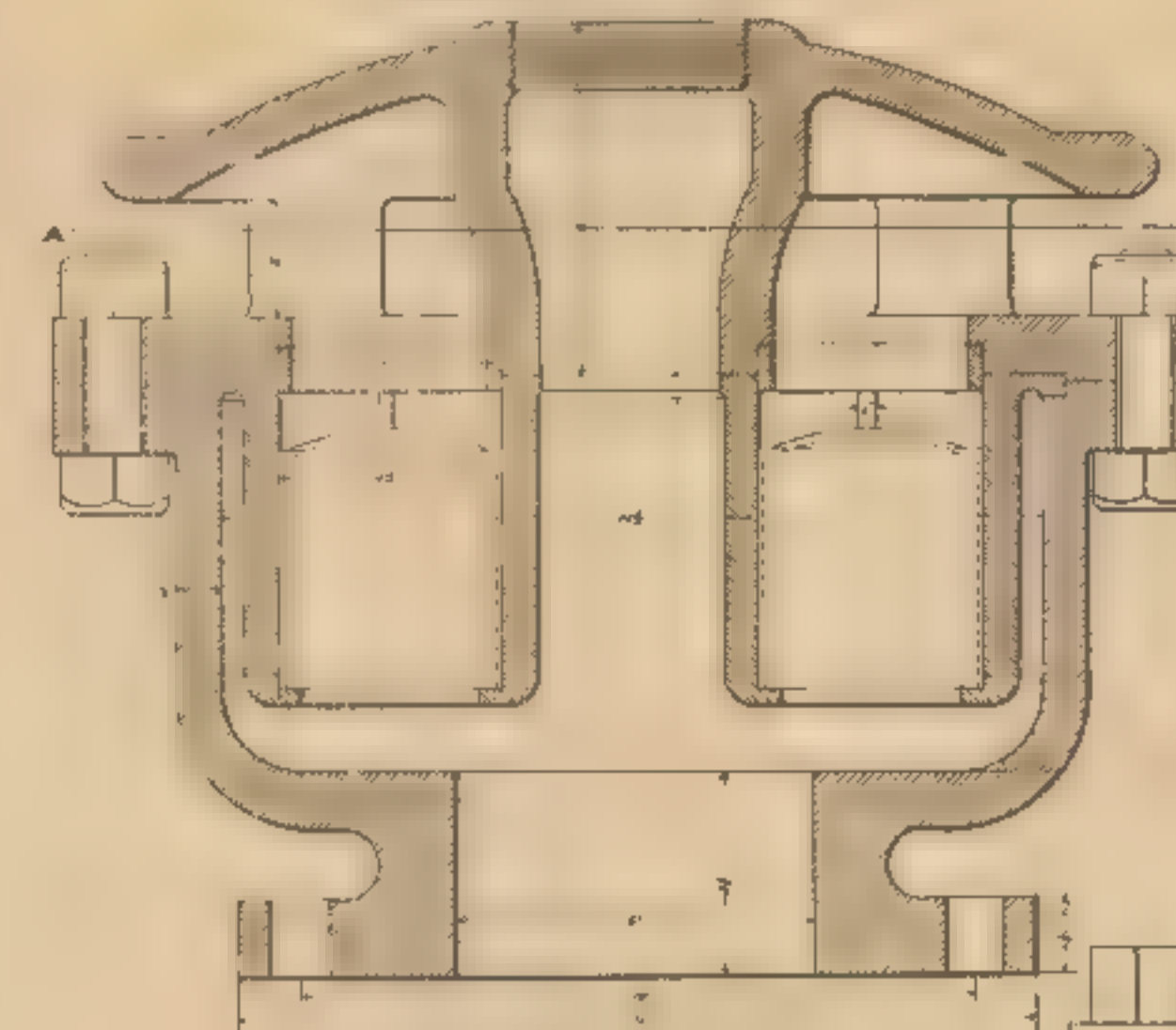
ELEVATION 8 6 CLUSTER VALVE



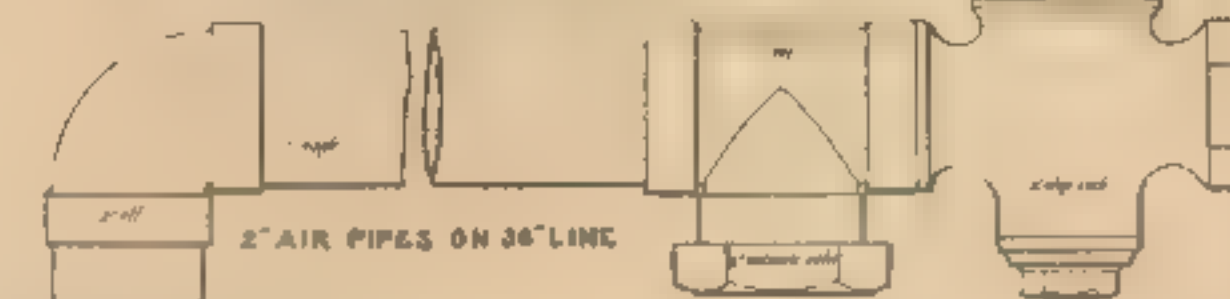
CAGE OF 8 VALVE



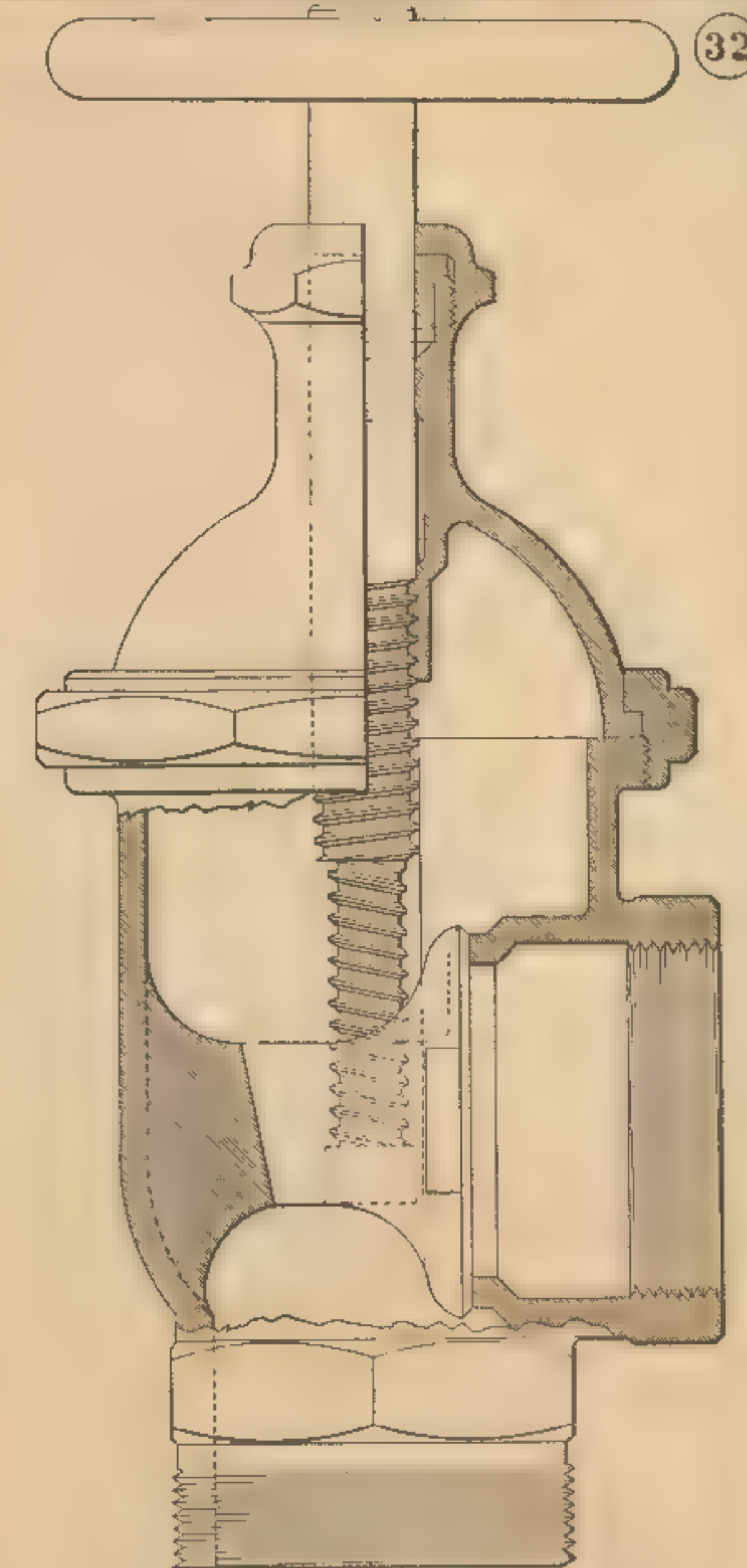
8 VALVE
SECTION AT AB PLAN OF CAP



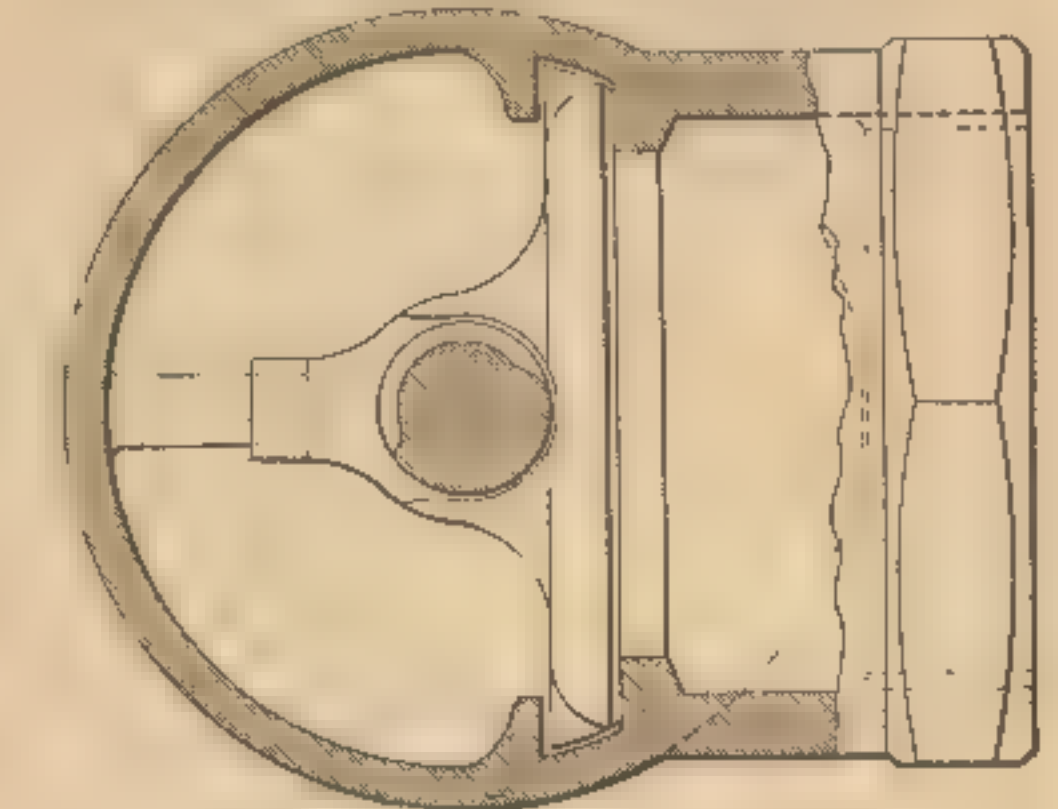
8 4 CLUSTER VALVE



2 AIR PIPES ON 36 LINE



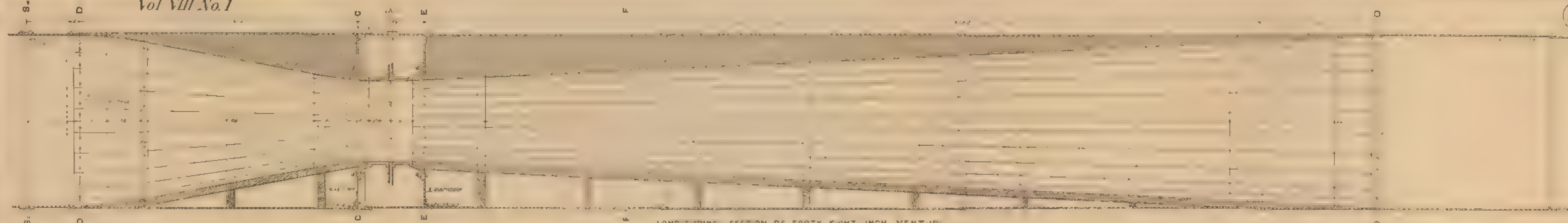
THREE INCH HAND ANGLE 10 10 CLUSTER VALVE FULL SIZE



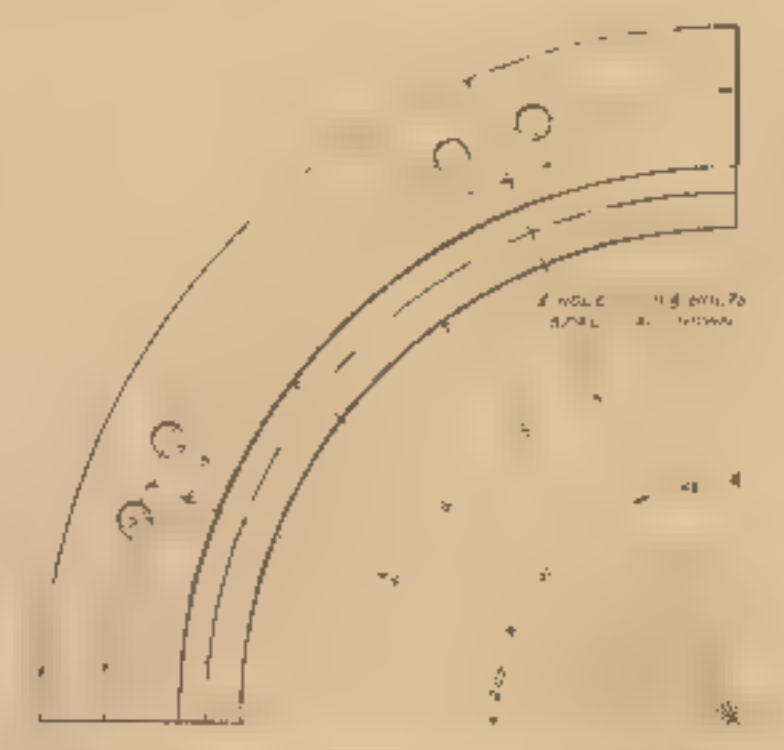
THE
EAST JERSEY WATER COMPANY
CONDUIT APPURTENANCES
DETAILS OF AIR VALVES

JUNE 1892

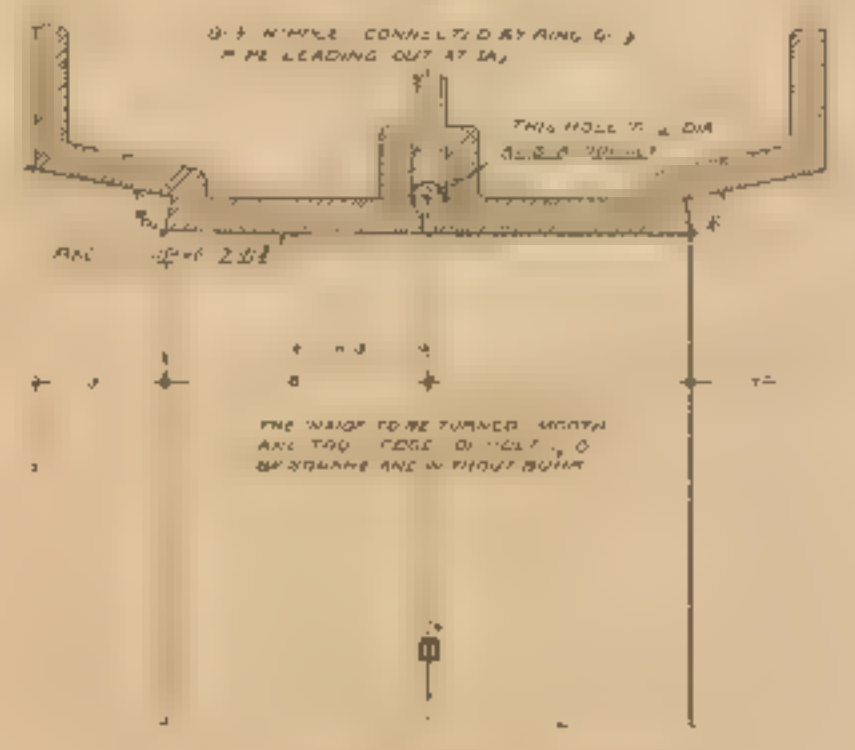
0 2 3 4 5 6 IN.



LONGITUDINAL SECTION OF FORTY EIGHT INCH VENTURI



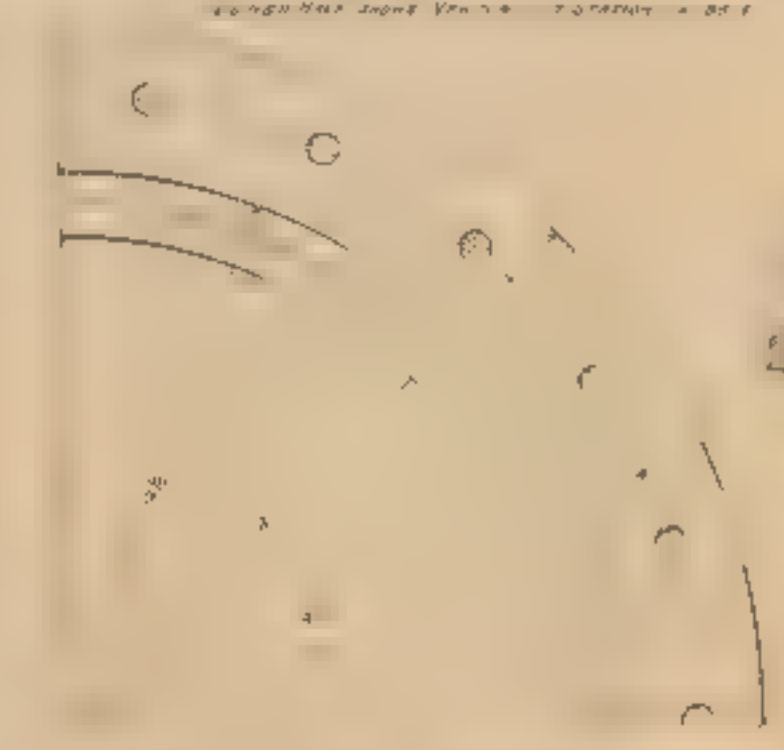
QUARTER UP STREAM ELEVATION



HALF LONGITUDINAL SECTION



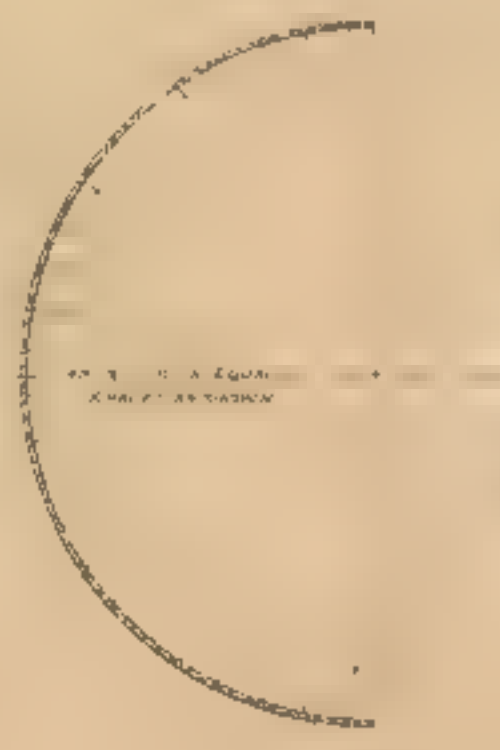
CROSS SECTION ON S.S.



QUARTER DOWN-STREAM ELEVATION



FULL SIZE OF PLATE AT S



D.D.

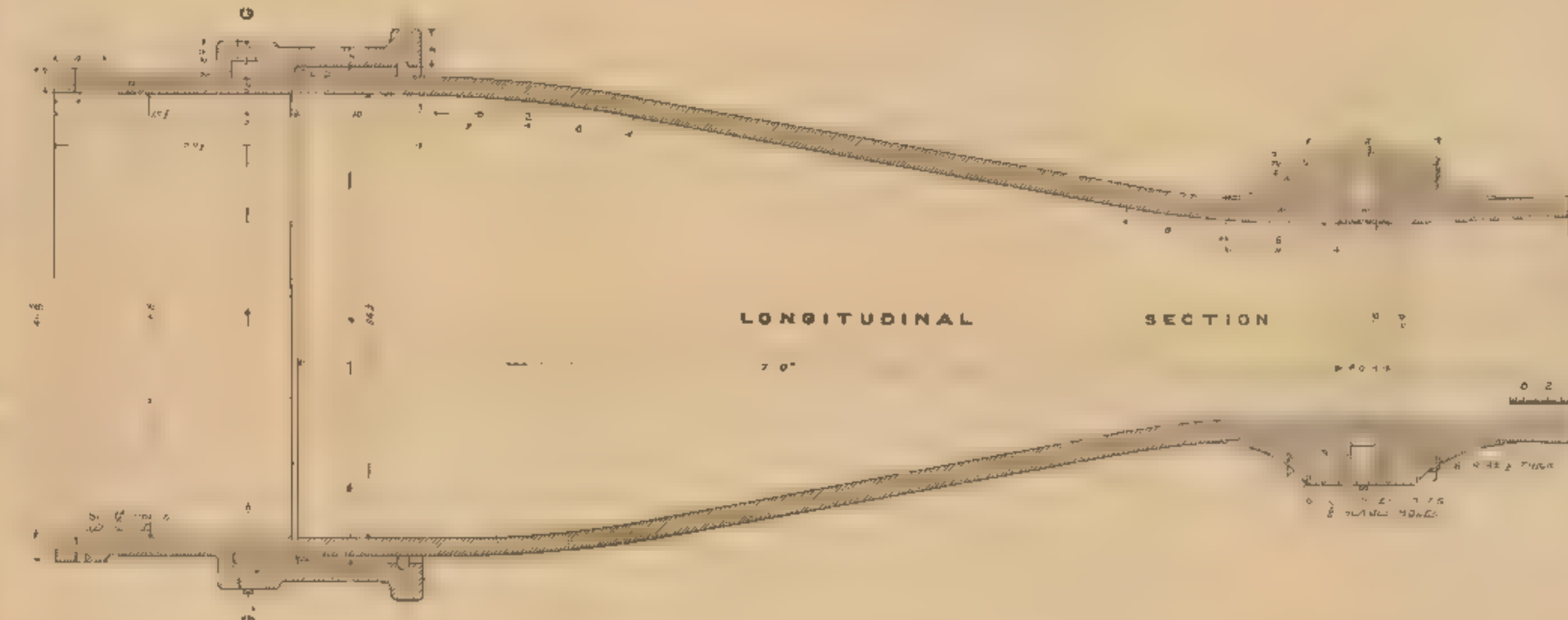


C.C.

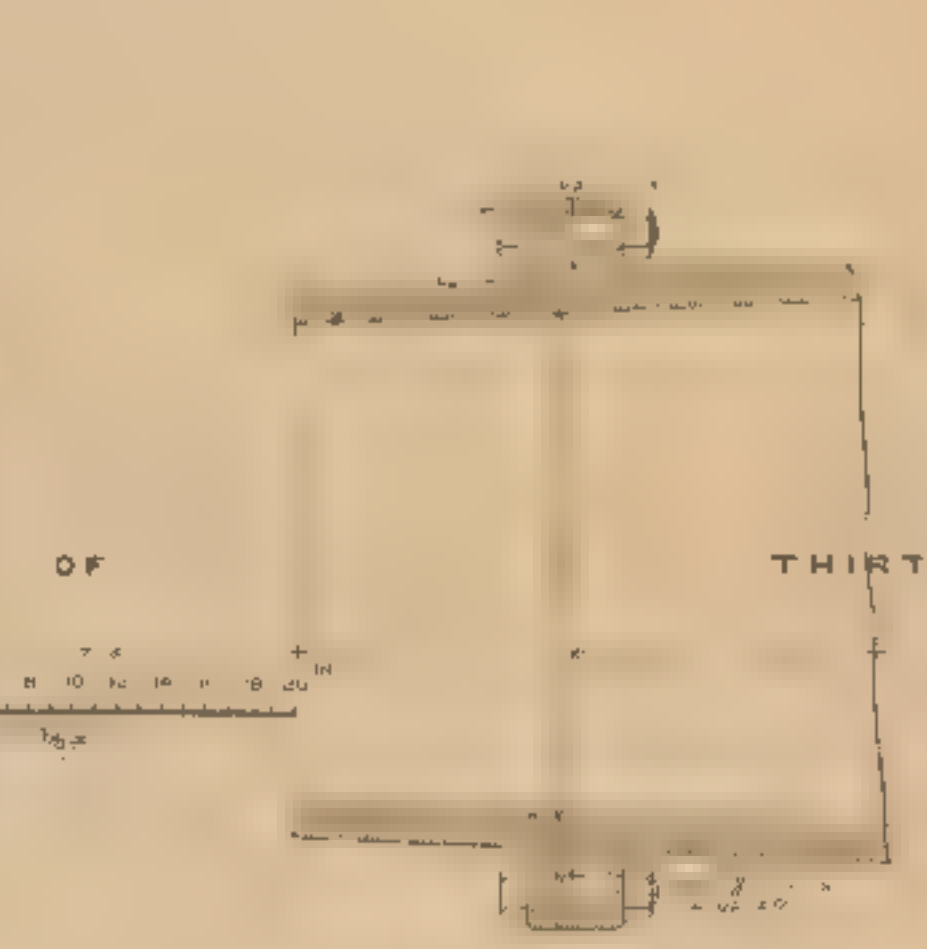


F.F.

HALF SECTIONS



LONGITUDINAL SECTION OF THIRTY SIX INCH VENTURI

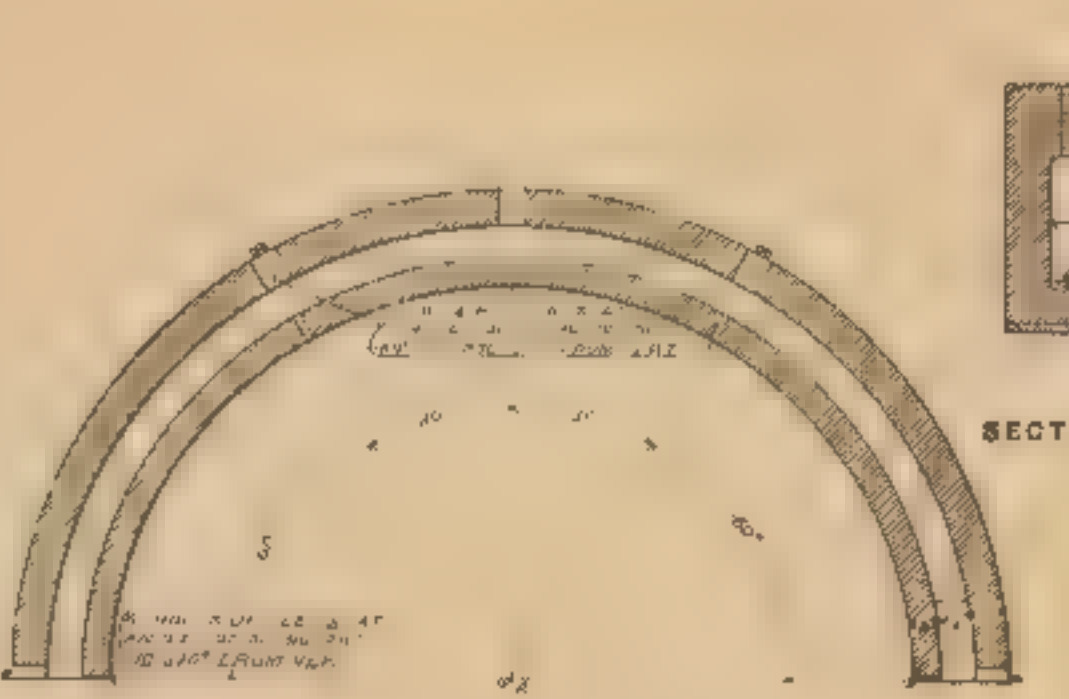


QUARTER SECTION ON K.K.

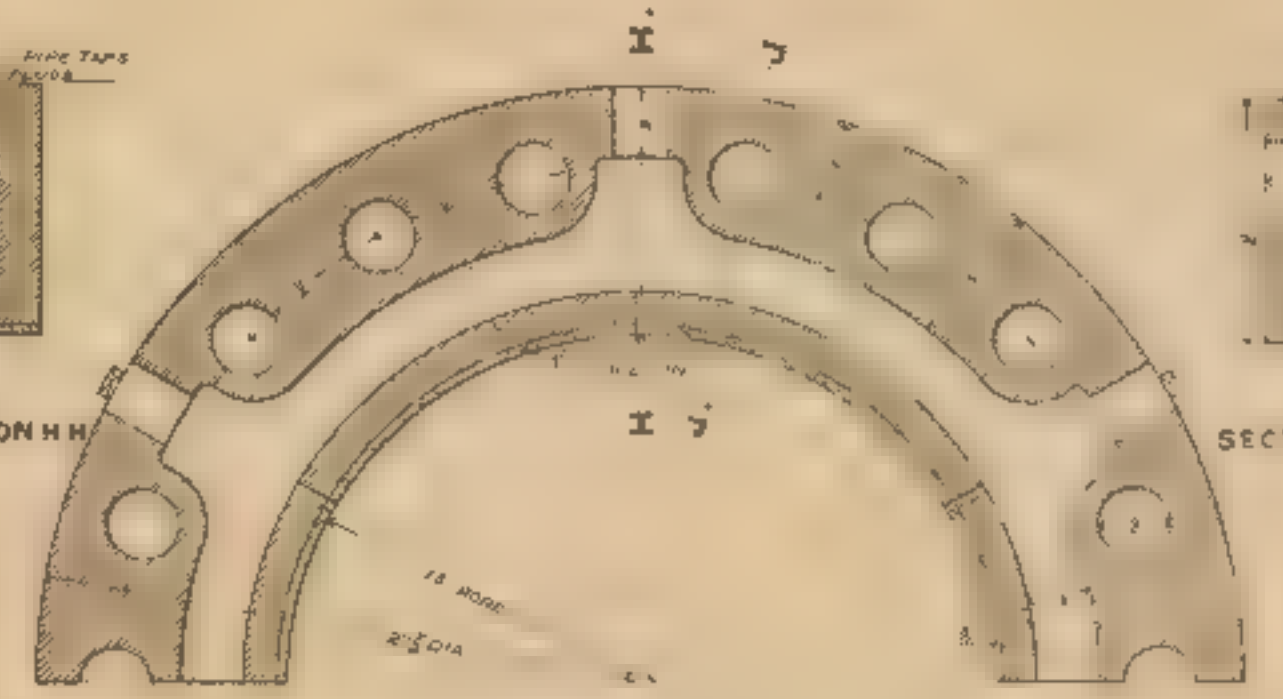


SECTION ON L.L.

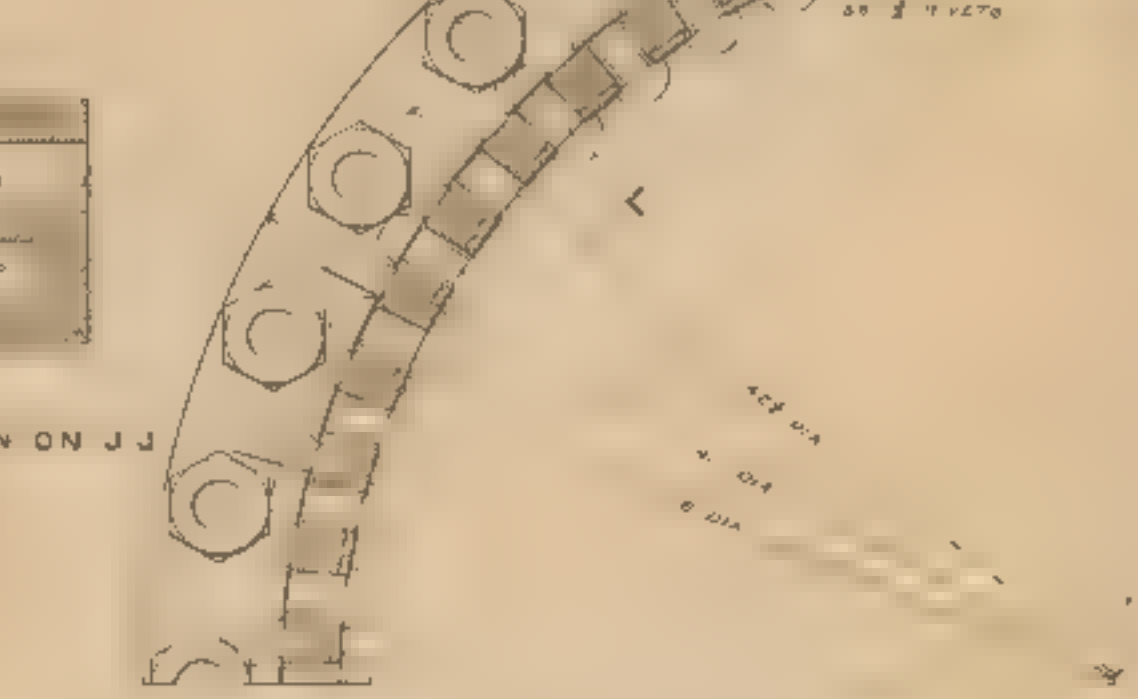
THE
EAST JERSEY WATER COMPANY
VENTURI WATER METER
OCT. 1892



HALF SECTION ON G.G.



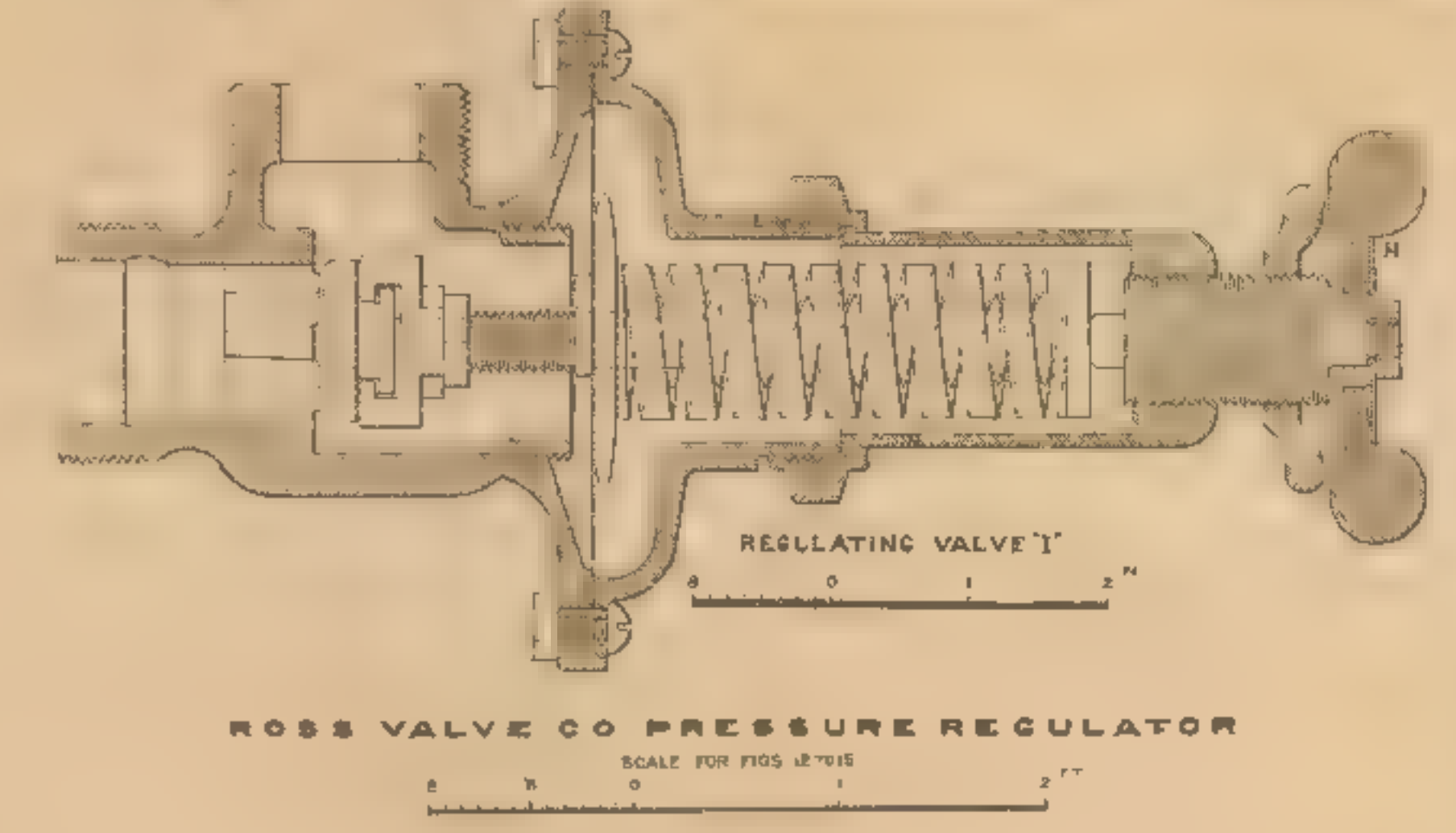
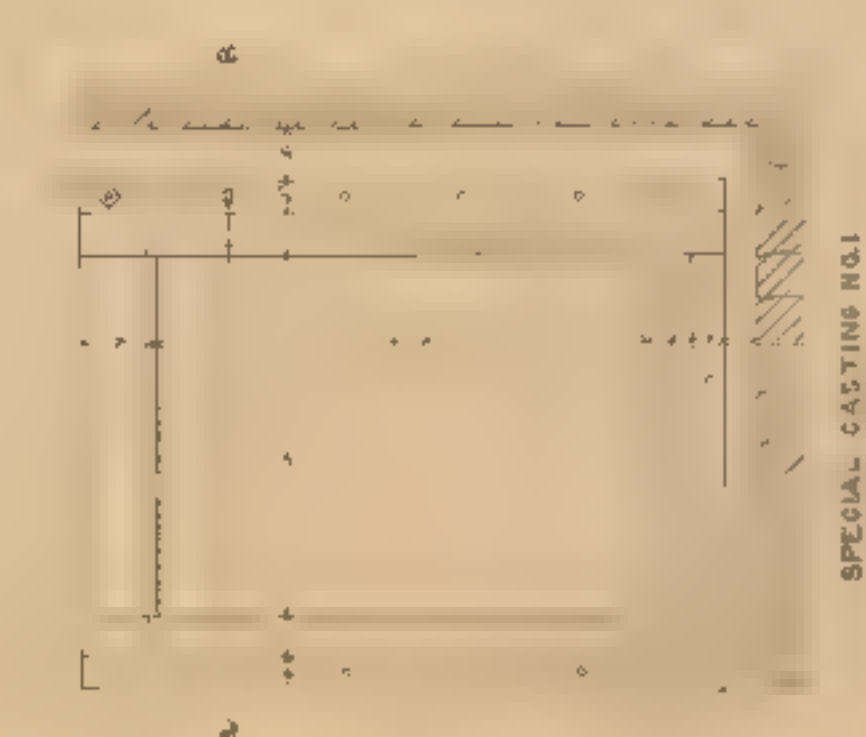
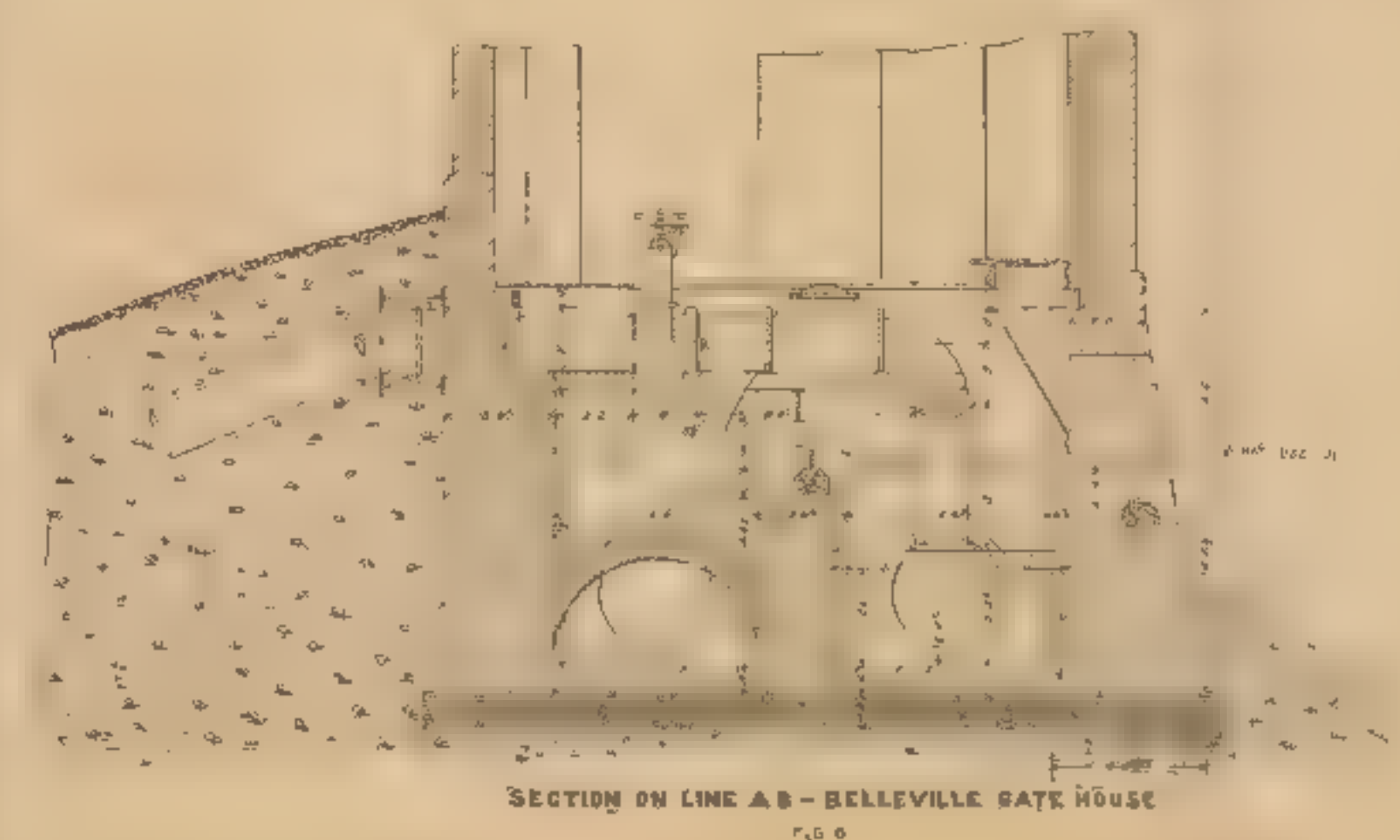
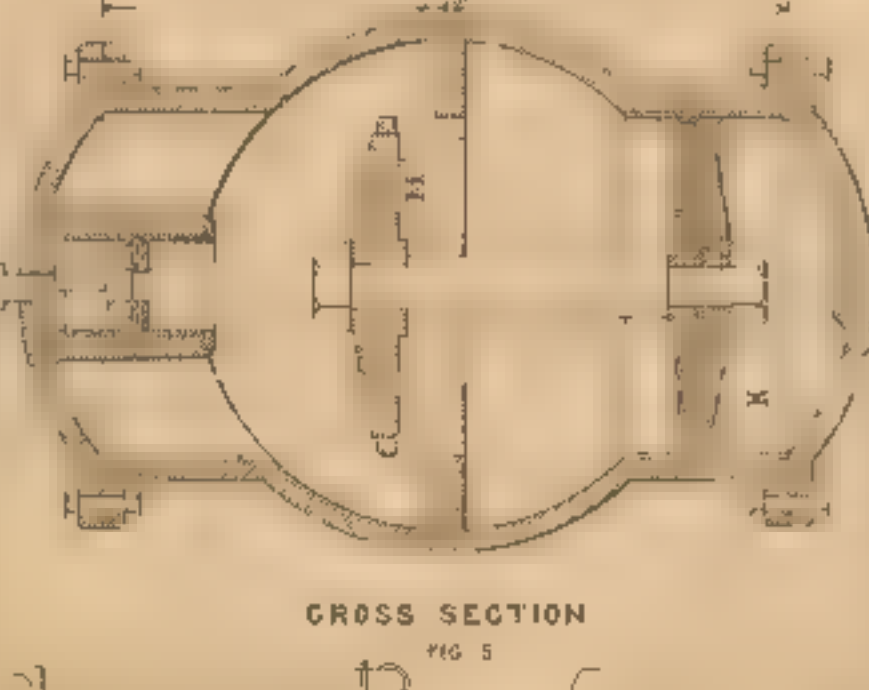
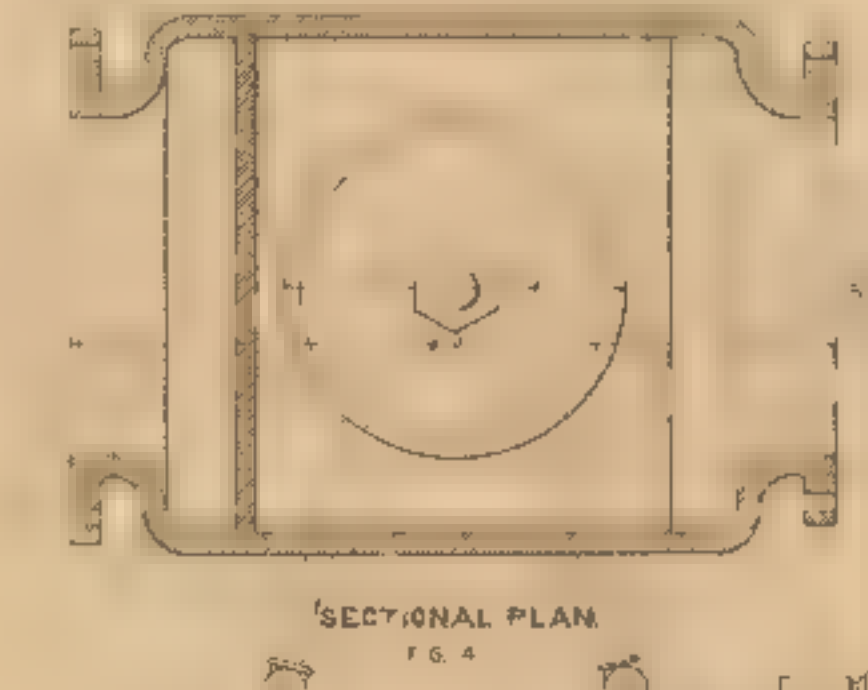
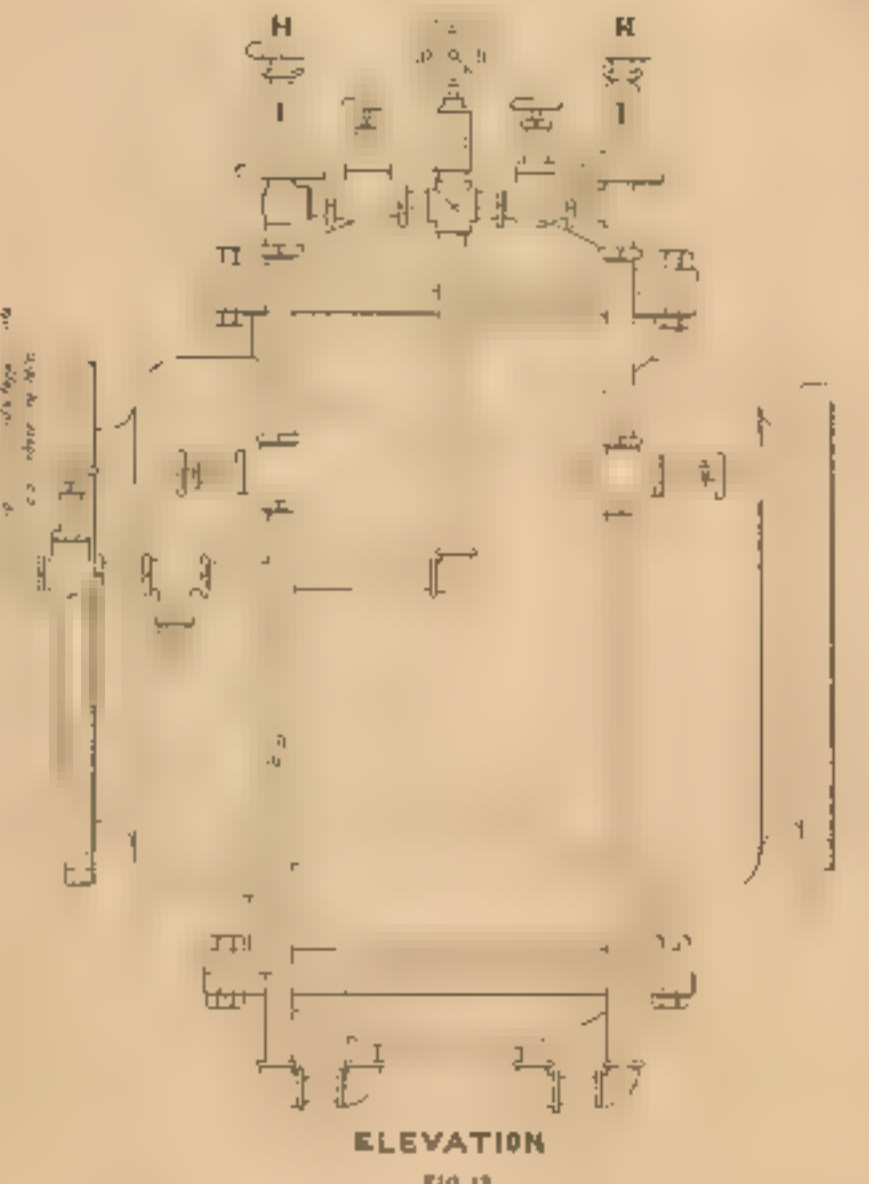
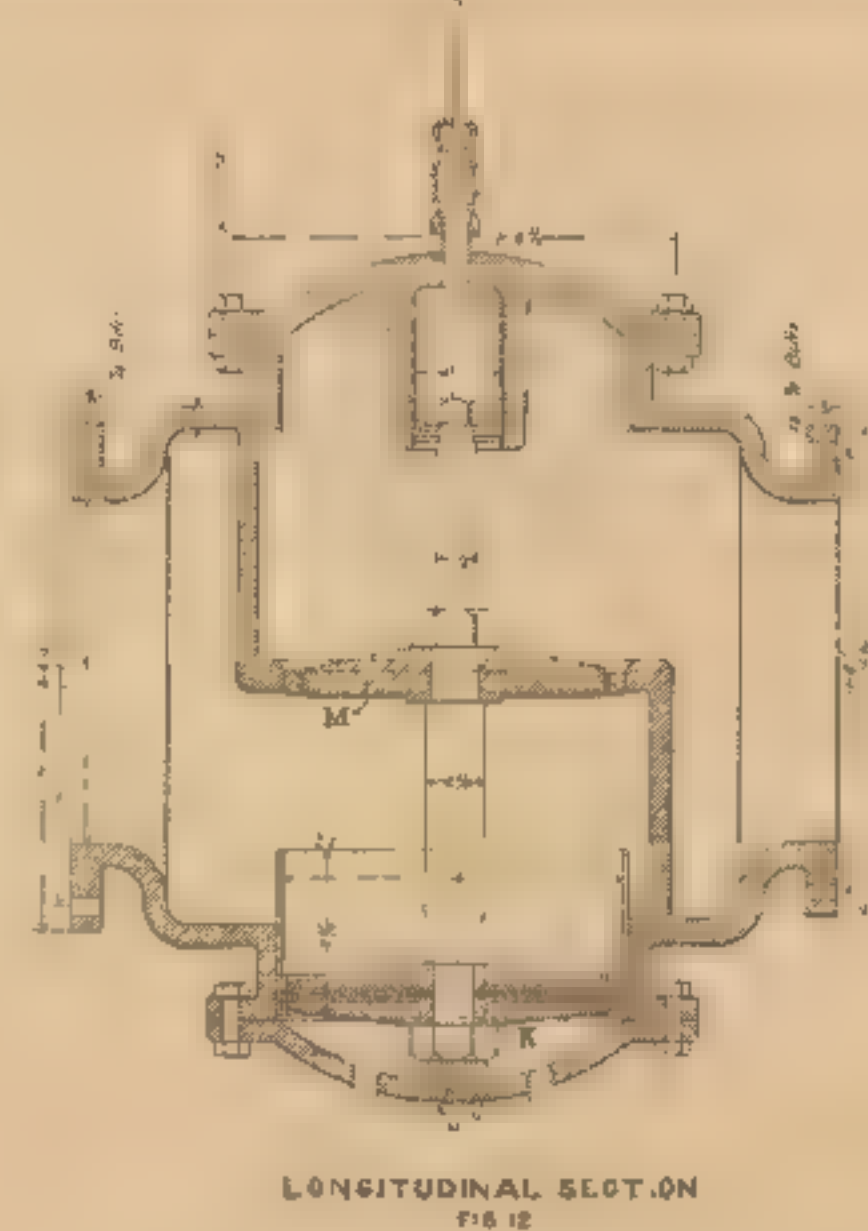
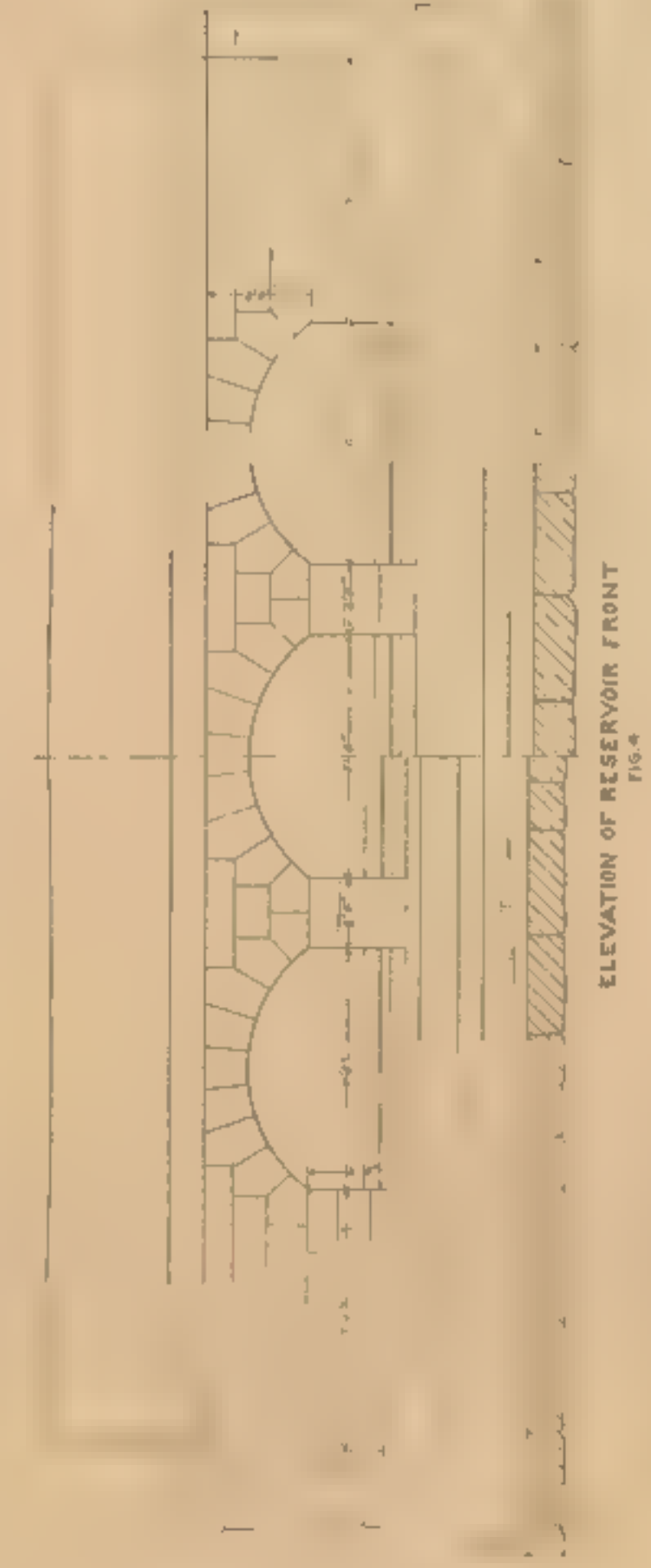
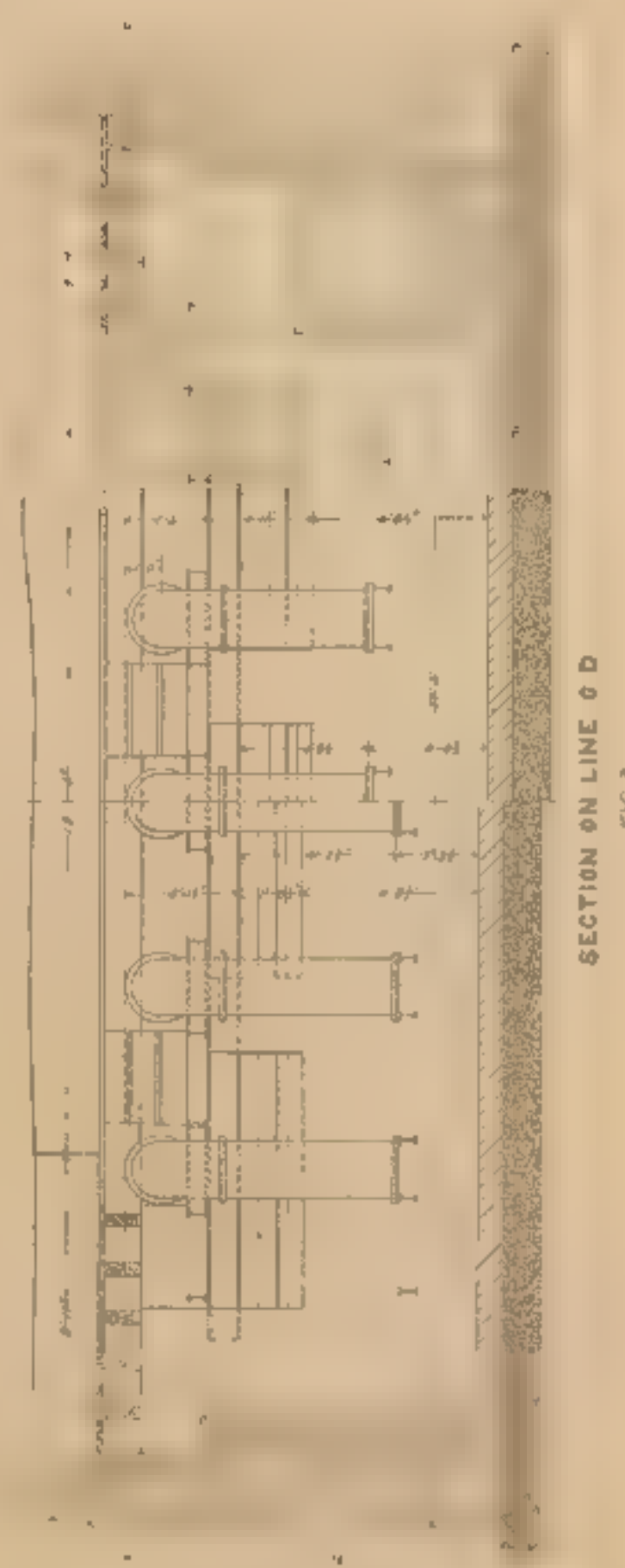
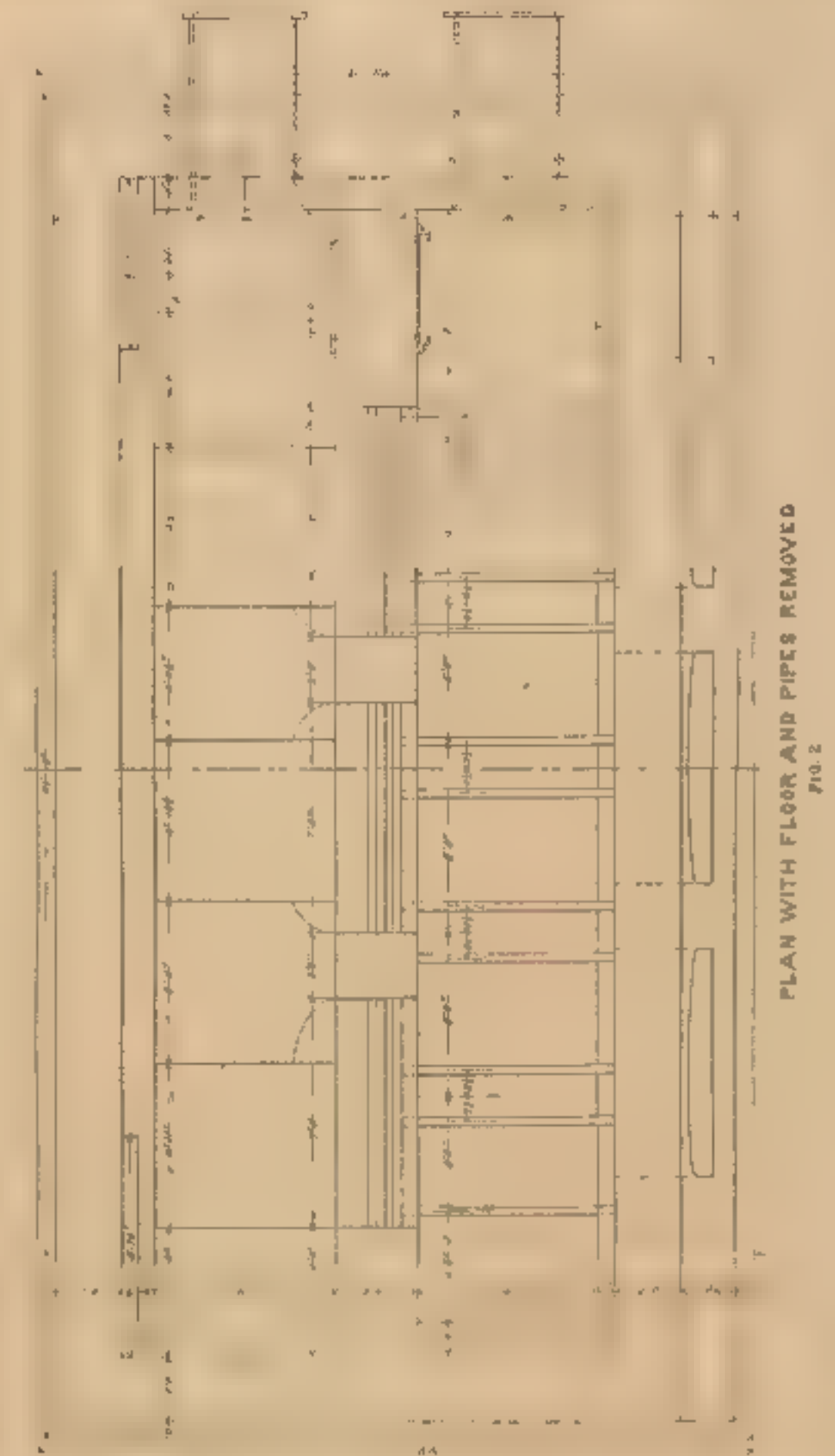
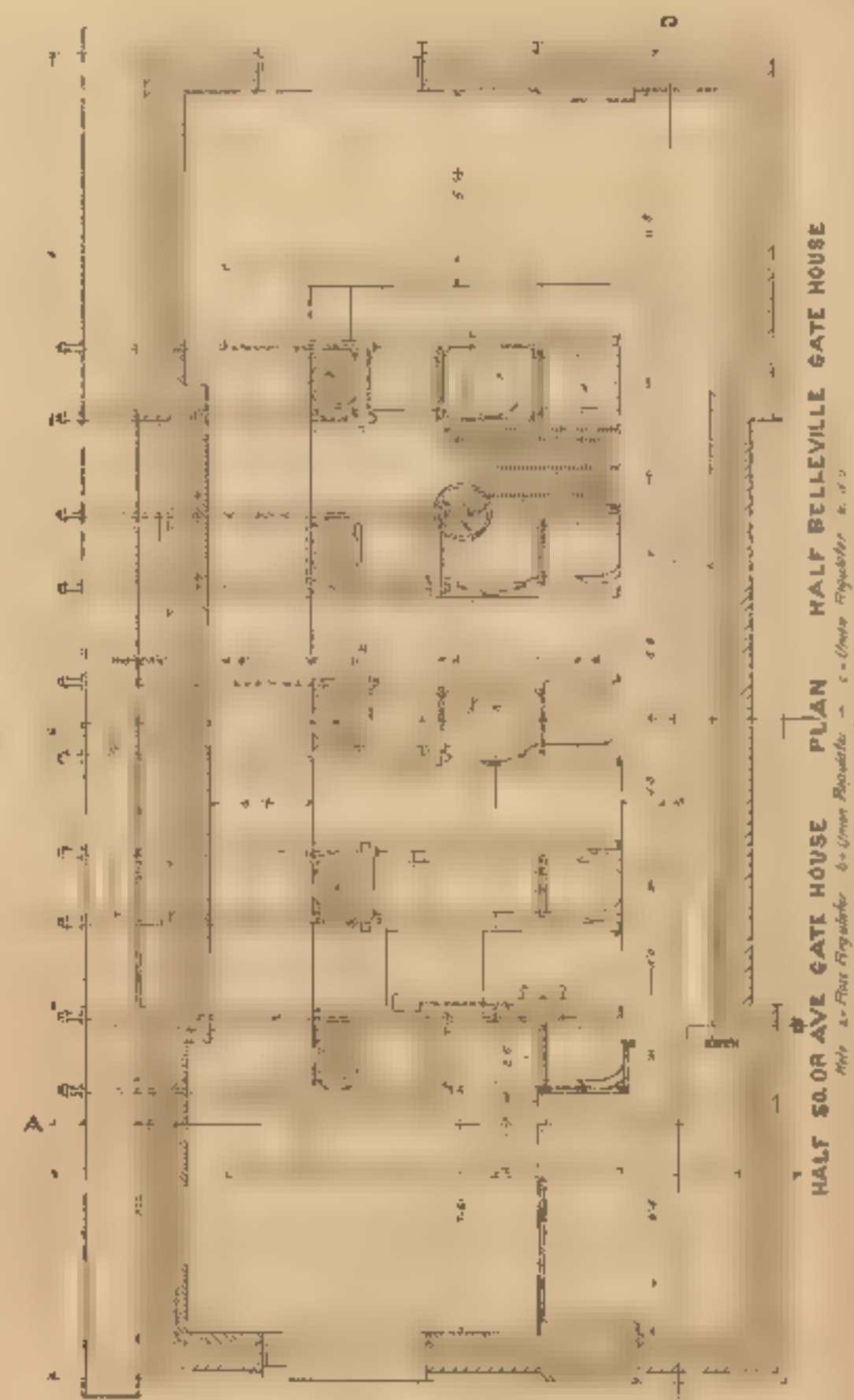
HALF SECTION OF THROAT OF THIRTY SIX INCH METER



SECTION ON J.J.



STANDARD THIRTY SIX INCH FLANGE



THE
EAST JERSEY WATER COMPANY
SUBSTRUCTURE OF GATE HOUSES
AT
NEWARK RESERVOIRS
NOVEMBER 1892

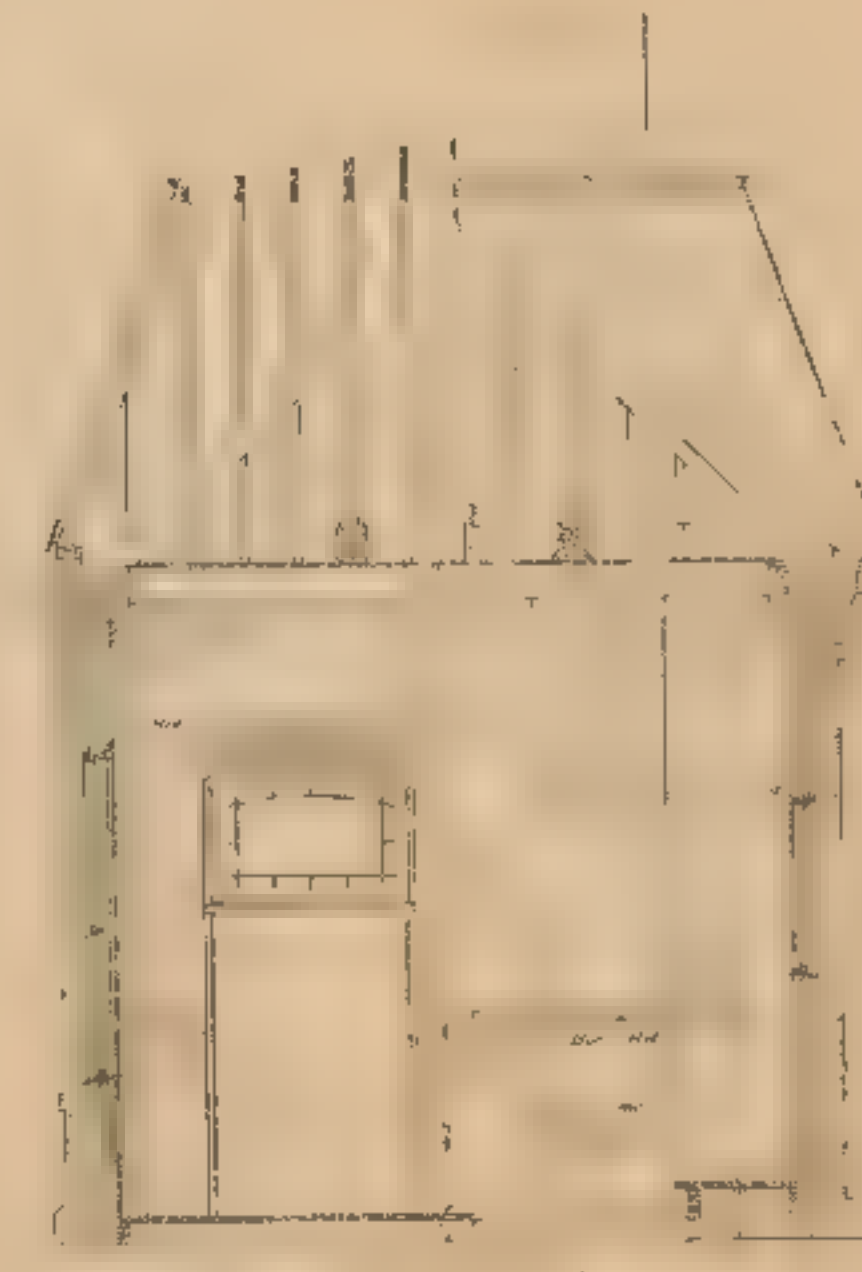
THE
EAST JERSEY WATER COMPANY
SUPERSTRUCTURE OF GATE HOUSES
AT
NEWARK RESERVOIRS
OCTOBER 1892



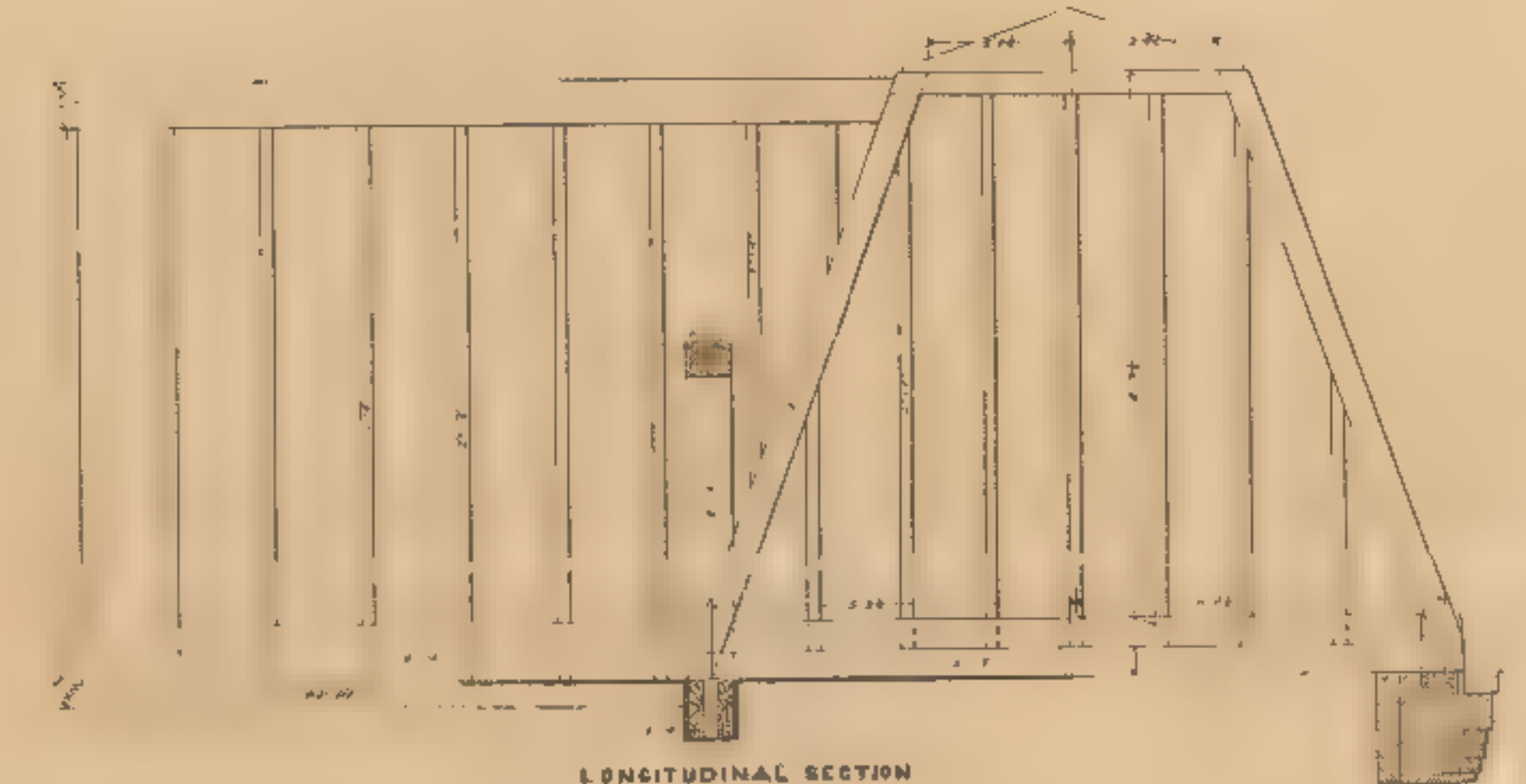
HALF STREET FACE ELEVATION HALF RESERVOIR FACE



SIDE ELEVATION



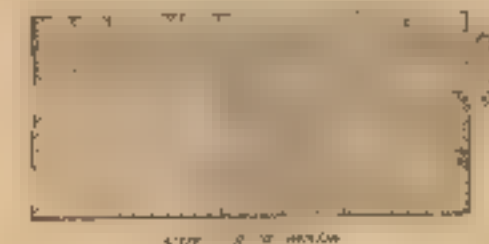
SECTION ON D-A-B



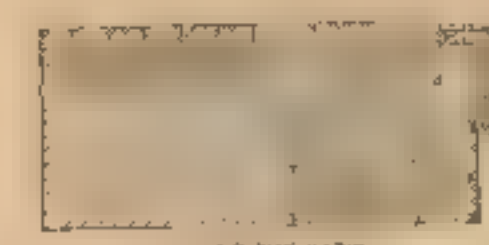
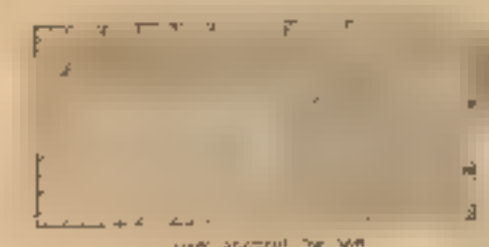
LONGITUDINAL SECTION



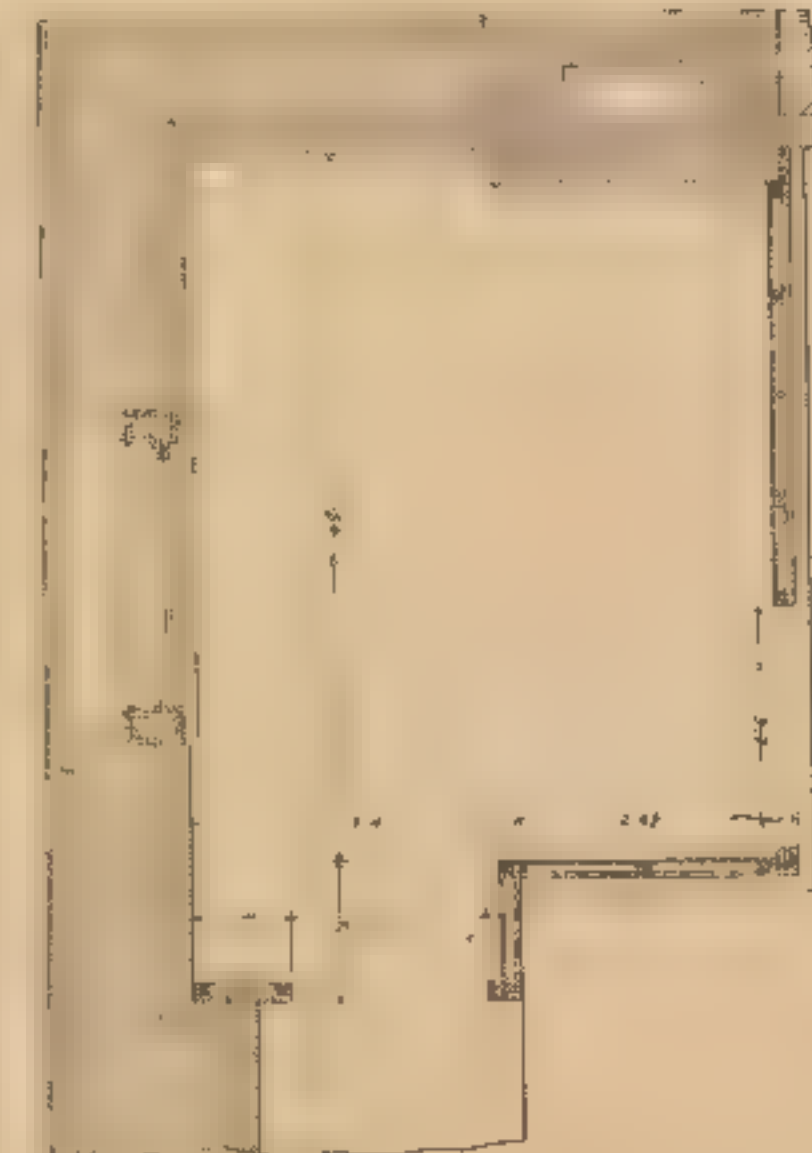
PLAN



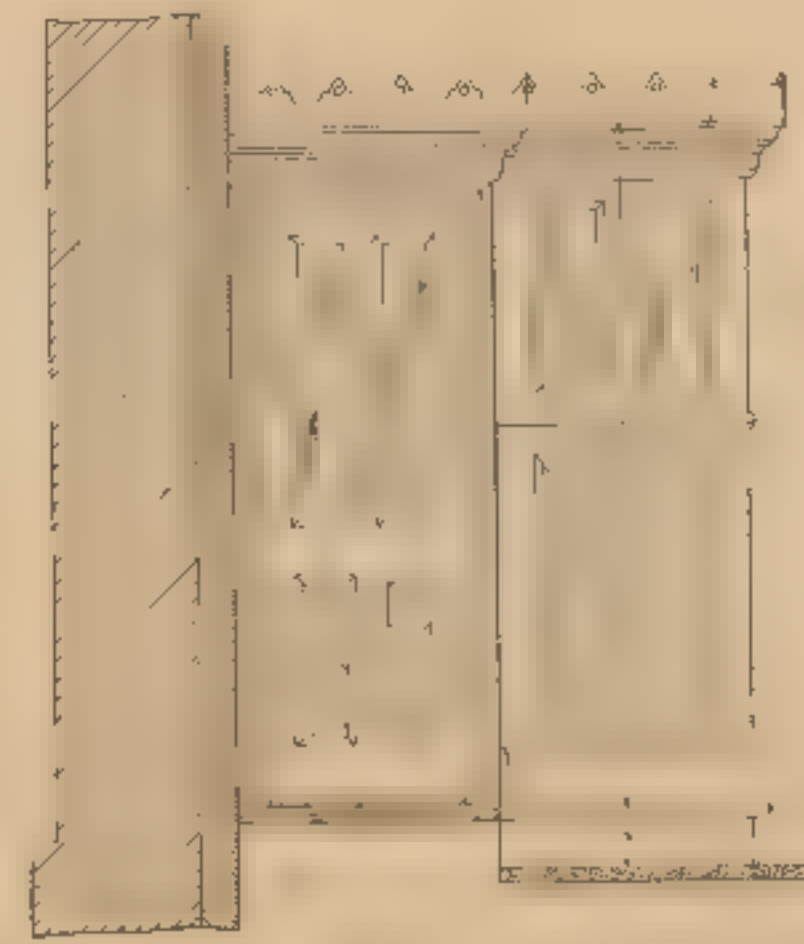
SECTIONS OF ARCHES



FRONT ELEVATION



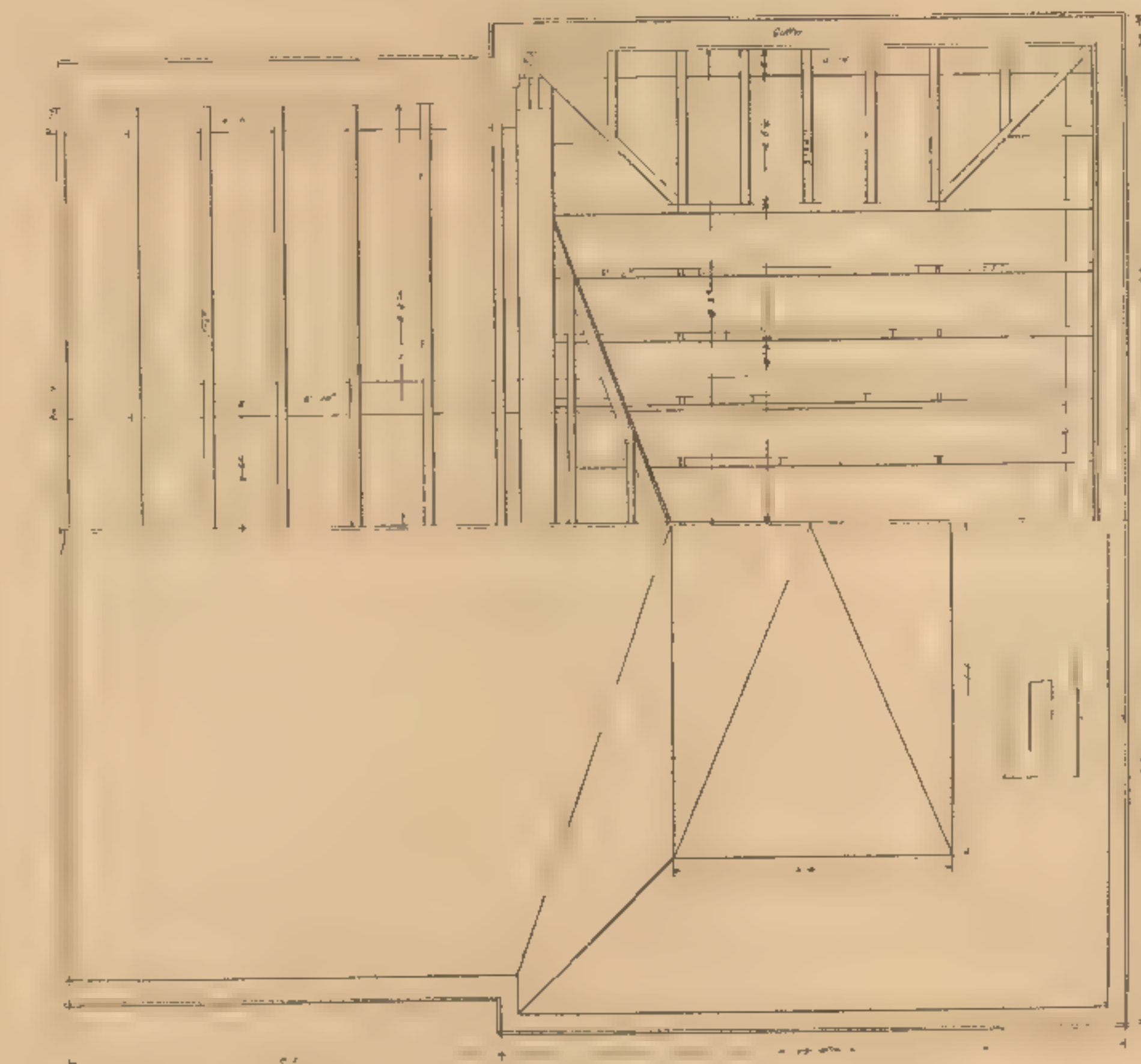
PLAN OF OFFICE



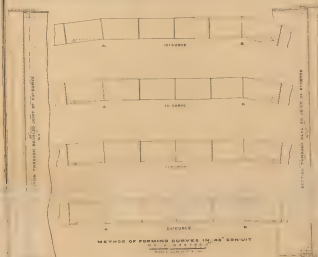
SIDE ELEVATION



CROSS SECTION



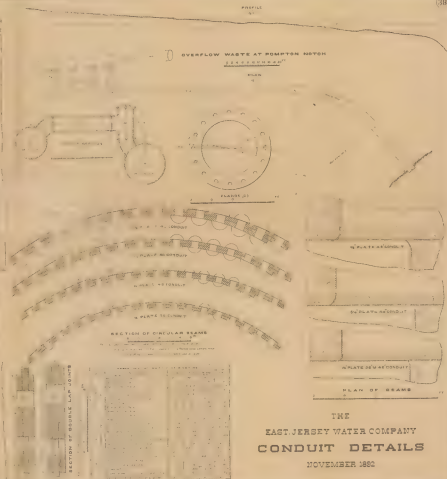
PLAN OF ROOFING



Angle	Radius	Length of Arc	Length of Chord	Depth of Sag	Length of Tangent
1°	171.89	3.14	3.14	0.0008	3.14
2°	85.94	6.28	6.28	0.0032	6.28
3°	57.29	9.42	9.42	0.0072	9.42
4°	42.97	12.57	12.57	0.0128	12.57
5°	34.38	15.71	15.71	0.0199	15.71
6°	28.65	18.85	18.85	0.0285	18.85
7°	24.49	21.99	21.99	0.0387	21.99
8°	21.42	25.13	25.13	0.0504	25.13
9°	19.09	28.27	28.27	0.0636	28.27
10°	17.36	31.42	31.42	0.0783	31.42

NOTE: ANGLES GIVEN IN DEGREES. RADIUS IN FEET. LENGTH OF ARC IN FEET. DEPTH OF SAG IN FEET. LENGTH OF TANGENT IN FEET.

Angle	Radius	Length of Arc	Length of Chord	Depth of Sag	Length of Tangent
1°	171.89	3.14	3.14	0.0008	3.14
2°	85.94	6.28	6.28	0.0032	6.28
3°	57.29	9.42	9.42	0.0072	9.42
4°	42.97	12.57	12.57	0.0128	12.57
5°	34.38	15.71	15.71	0.0199	15.71
6°	28.65	18.85	18.85	0.0285	18.85
7°	24.49	21.99	21.99	0.0387	21.99
8°	21.42	25.13	25.13	0.0504	25.13
9°	19.09	28.27	28.27	0.0636	28.27
10°	17.36	31.42	31.42	0.0783	31.42



THE
EAST JERSEY WATER COMPANY
CONDUIT DETAILS

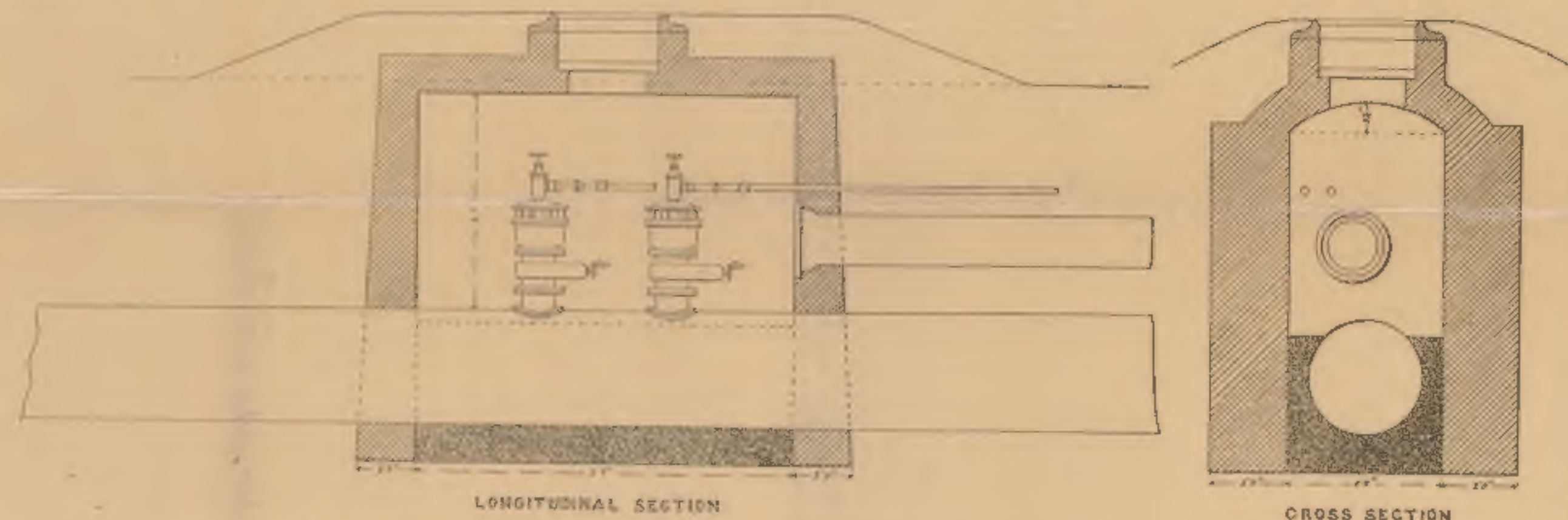
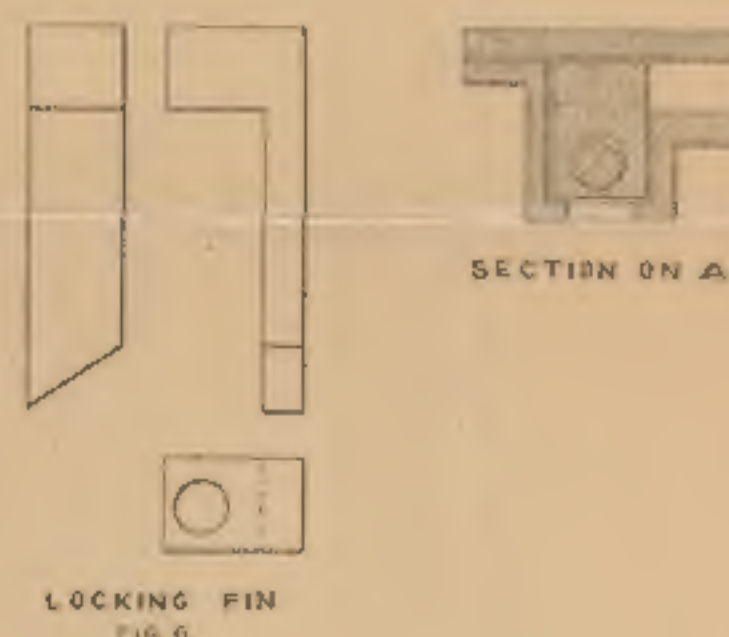
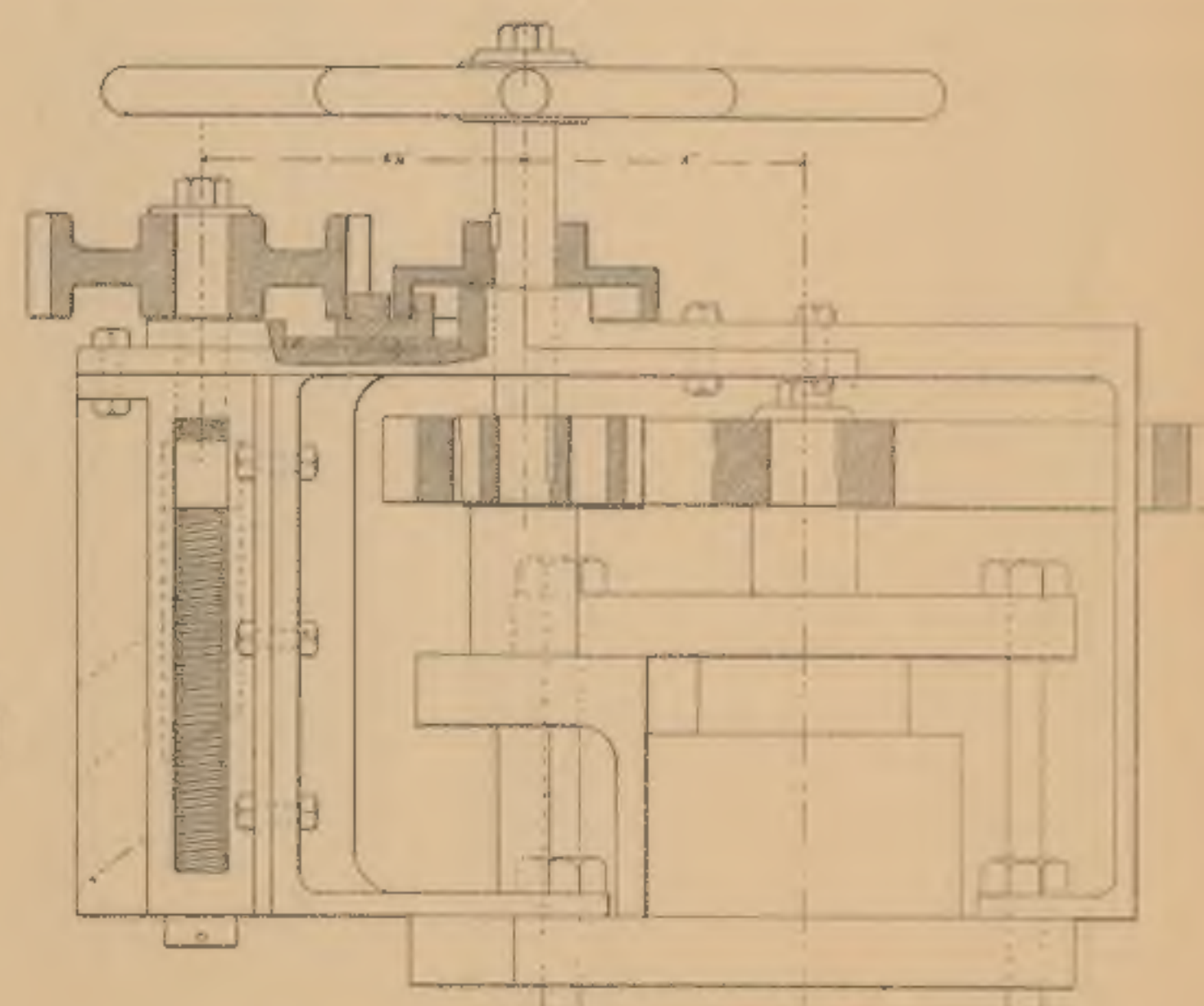
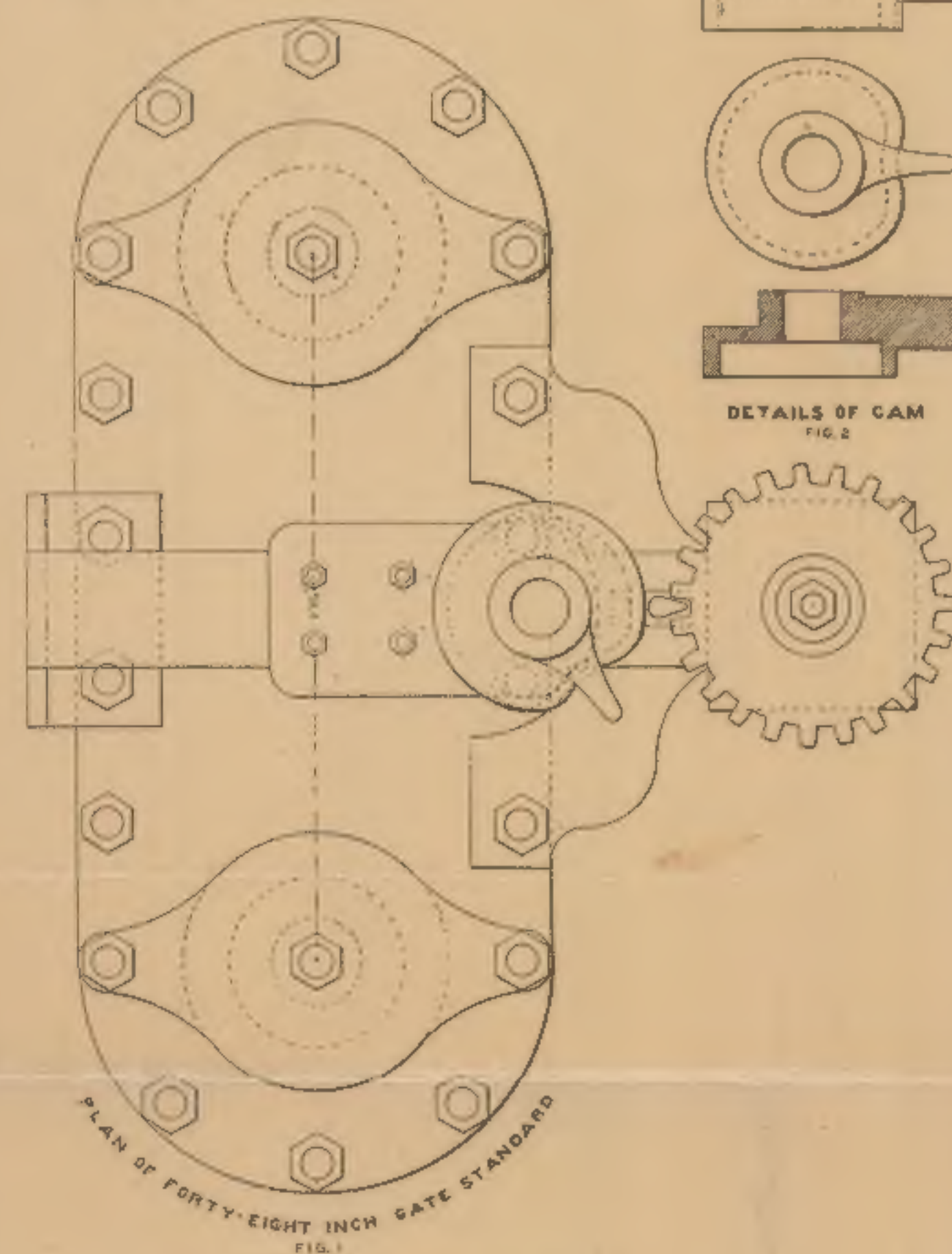
NOVEMBER 1902

THE
EAST JERSEY WATER COMPANY
CONDUIT APPURTENANCES

DECEMBER 1892

SCALE FOR FIGS. 1 TO 6

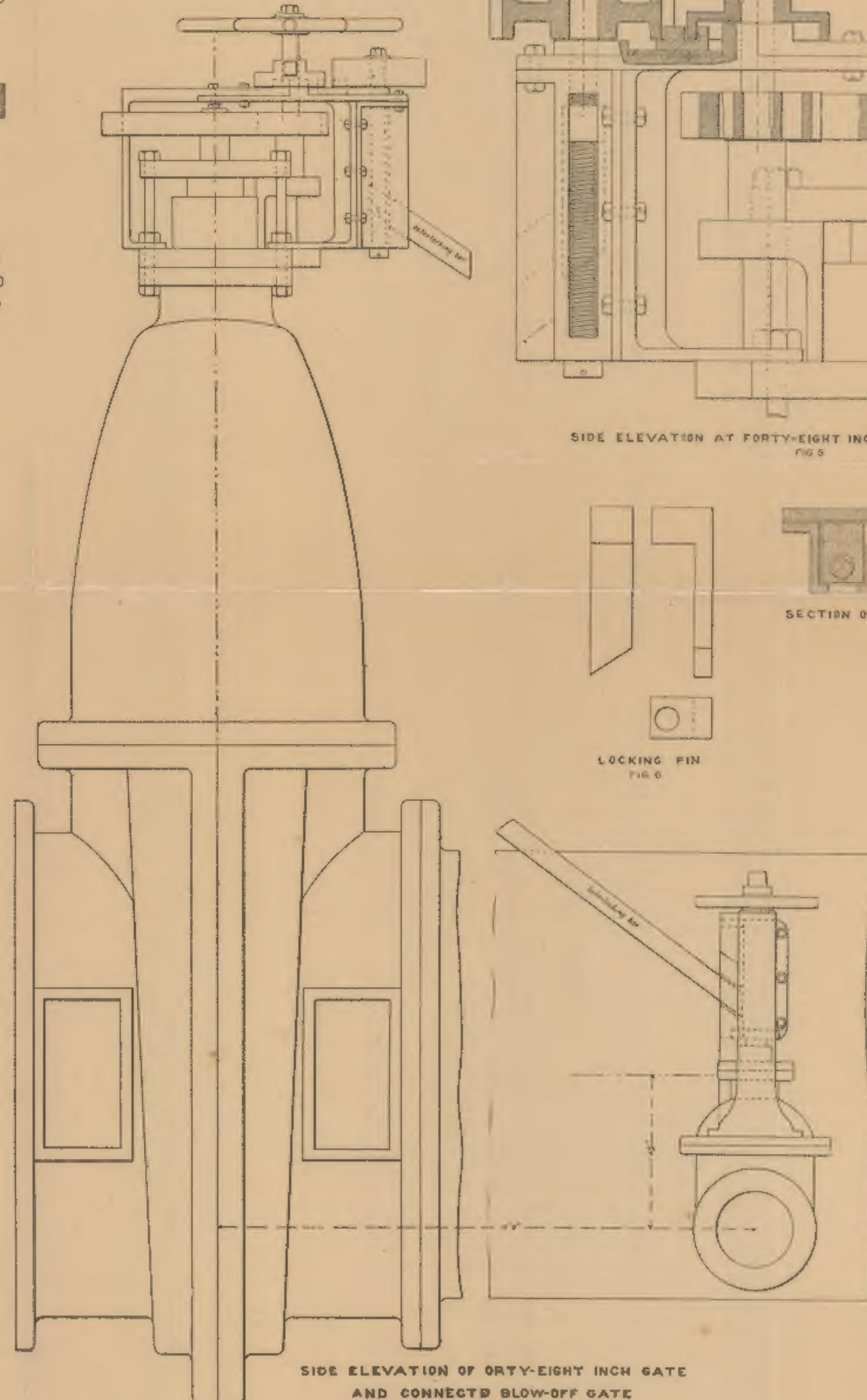
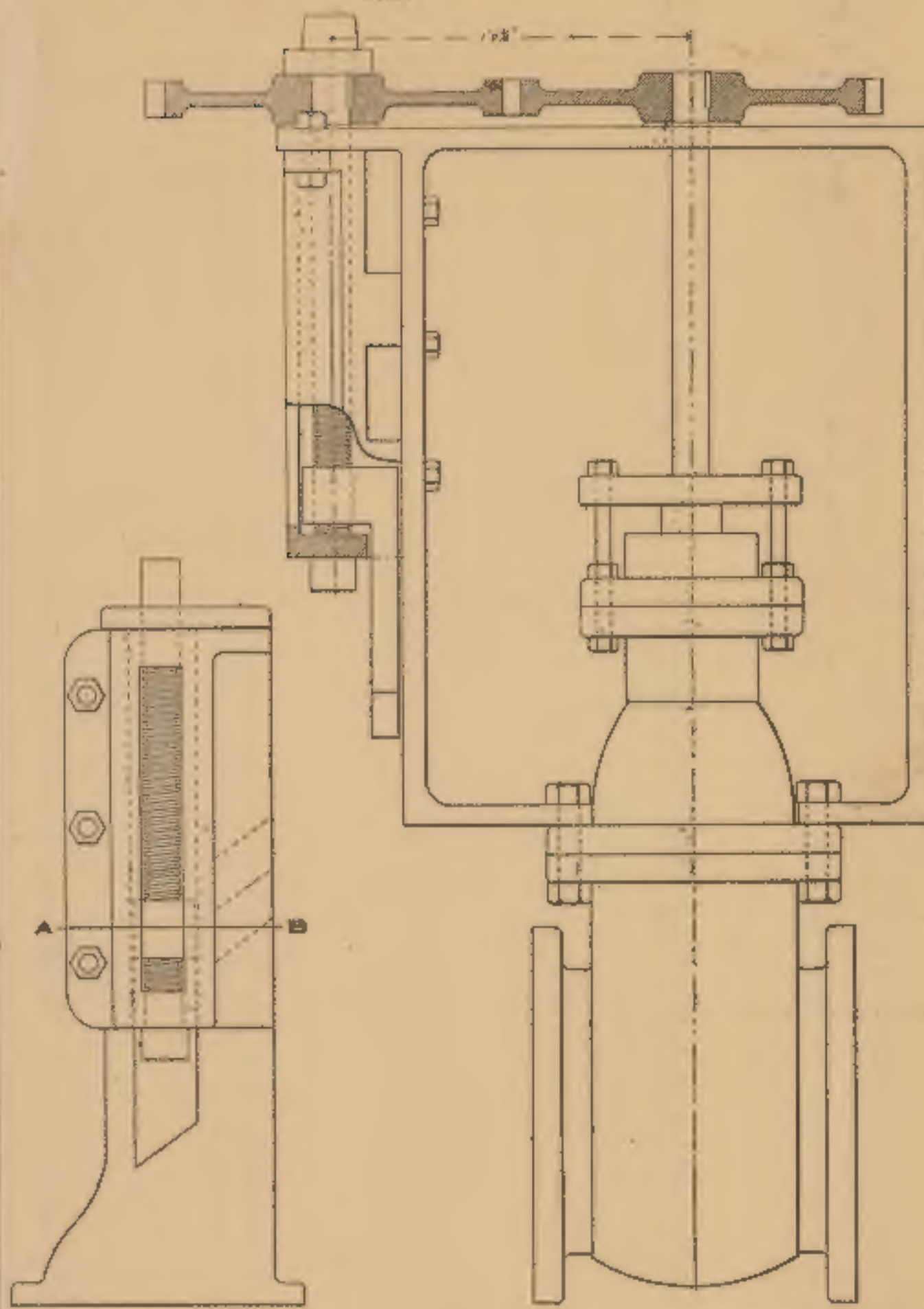
0 1 2 3 4 5 6 7 8 9 10 FT



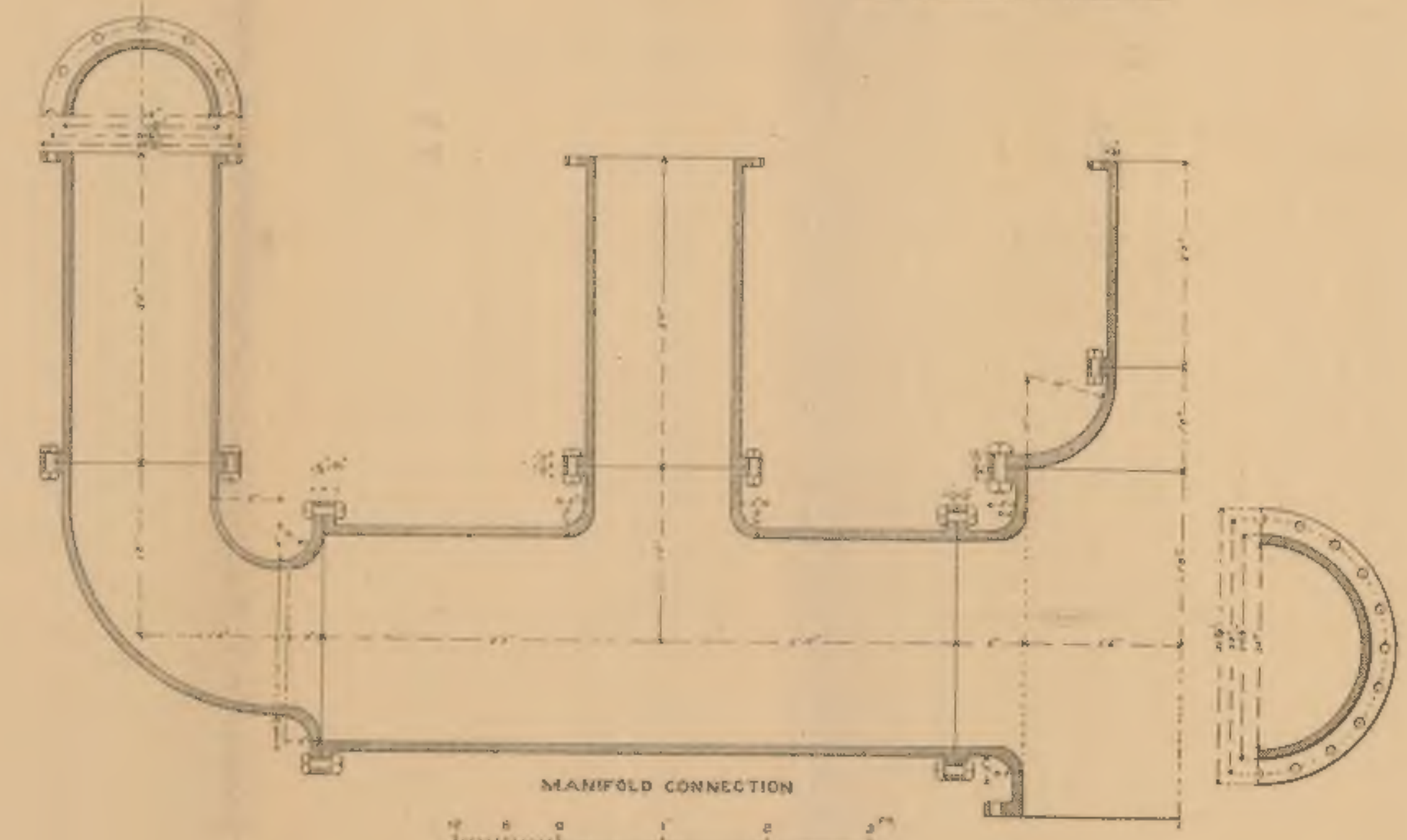
AIR VALVE VAULT

Notes - Details show air of vault at station, valves are fully open each valve - Others are closed

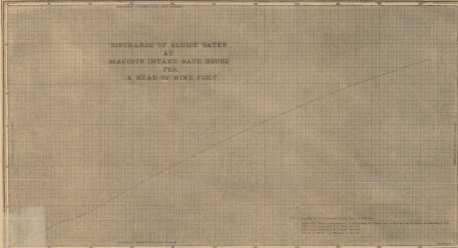
0 1 2 3 4 5 6 7 8 9 10 FT



DETAILS OF INTERLOCKING BLOW-OFF APPARATUS

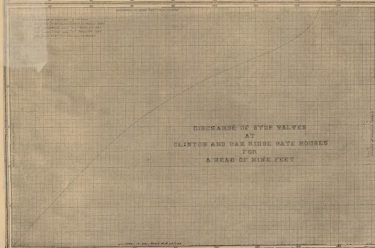


DISCHARGE OF SLUICE WATER
AT
MACOPIN INTAKE GATE HOUSE
FOR
A HEAD OF NINE FEET

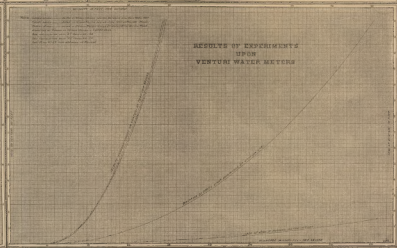


THE
EAST JERSEY WATER COMPANY
DISCHARGE DIAGRAMS
DECEMBER 1882

DISCHARGE OF STEAM VALVES
AT
CLINTON AND CAK HIDGE GATE HOUSES
FOR
A HEAD OF NINE FEET



RESULTS OF EXPERIMENTS
UPON
VENTURI WATER METERS




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[.ShellClassInfo]
InfoTip=This folder is shared online.
IconFile=C:\Program Files (x86)\Google\Drive\googledrivesync.exe
IconIndex=12
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